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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. J. Please type a plus sign (+) inside this box → Attorney Docket No. 2459-1-003 UTILITY First Inventor or Application Identifier | Ming-Ming Zhou PATENT APPLICATION METHODS OF IDENTIFYING ... TRANSMITTAL Express Mail Label No. EL485954545US (Only for new nonprovisional applications under 37 C.F.R. § 1.53(b), Assistant Commissioner for Patents 200 APPLICATION ELEMENTS ADDRESS TO: **Box Patent Application** See MPEP chapter 600 concerning utility patent application contents. Washington, DC 20231 * Fee Transmittal Form (e.g., PTO/SB/17) Microfiche Computer Program (Appendix) 5. (Submit an original and a duplicate for fee processing) 6. Nucleotide and/or Amino Acid Sequence Submission V Total Pages Specification (if applicable, all necessary) (preferred arrangement set forth below) Computer Readable Copy - Descriptive title of the Invention - Cross References to Related Applications Paper Copy (identical to computer copy) - Statement Regarding Fed sponsored R & D Statement verifying identity of above copies - Reference to Microfiche Appendix - Background of the Invention ACCOMPANYING APPLICATION PARTS - Brief Summary of the Invention Assignment Papers (cover sheet & document(s)) - Brief Description of the Drawings (if filed) Power of 37 C.F.R.§3.73(b) Statement | 8 - Detailed Description Attorney (when there is an assignee) - Claim(s) English Translation Document (if applicable) 9. Abstract of the Disclosure Copies of IDS Information Disclosure Drawing(s) (35 U.S.C. 113) [Total Sheets Citations Statement (IDS)/PTO-1449 Preliminary Amendment 4. Oath or Declaration unexecuted Total Pages Return Receipt Postcard (MPEP 503) Newly executed (original or copy) (Should be specifically itemized) Copy from a prior application (37 C.F.R. § 1.63(d)) Small Entity Statement filed in prior application, (for continuation/divisional with Box 16 completed) b. Statement(s) Status still proper and desired **DELETION OF INVENTOR(S)** (PTO/SB/09-12) Certified Copy of Priority Document(s) Signed statement attached deleting (if foreign priority is claimed) inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b). 15. Other: -atomic-coordinates-----NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES. A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT in 6 Tables IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28). 16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment. Continuation-in-part (CIP) of prior application No: Divisional Continuation Group / Art Unit: Prior application information: Examiner For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 17. CORRESPONDENCE ADDRESS Correspondence address below Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) David A. Jackson Name Klauber & Jackson Continental Plaza Address 411 Hackensack Avenue 07601 New Jersey Zip Code Hackensack

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METHODS OF IDENTIFYING MODULATORS OF BROMODOMAINS

FIELD OF THE INVENTION

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The present invention provides the three-dimensional structure of a histone acetyltransferase bromodomain. The three-dimensional structural information is included in the invention. The present invention also identifies for the first time, that bromodomains can bind to an acetylated binding partners. The interaction between bromodomains and their binding partners play a crucial role in various cellular functions, including in the regulation/modulation of DNA transcription. Therefore, the present invention provides procedures for identifying agents that can modulate the interaction of bromodomains and their binding partners by high throughput drug screening and/or through the use of rational drug design based on the threedimensional data provided herein.

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BACKGROUND OF THE INVENTION

In recent years great strides have been made in the elucidation of the steps involved in 20 intercellular and intracellular signaling. Indeed, the individual steps of the cascade of events involved in a number of cellular signal transduction processes have been determined. For example, intercellular signal transduction generally begins with an intercellular ligand binding the extracellular portion of a receptor of the plasma membrane. The bound receptor then either directly or indirectly initiates the activation of one or more cellular factors. An activated cellular factor may act as 25 transcription factor by entering the nucleus to interact with its corresponding genomic response element, or alternatively, it may interact with other cellular factors depending on the complexity of the process. In either case, one or more transcription factors ultimately bind to one or more specific genomic response elements. This binding plays a crucial role in the up and/or down regulation of the transcription of 30 the specific genes that are under the control of these genomic response elements. However, the process of re-organizing the chromatin of eukaryotic cells, which is a prerequisite for the binding of the transcription factor to the genomic response elements, has remained a mystery.

Chromatin contains several highly conserved histone proteins including: H3, H4,

H2A, H2B, and H1. These histone proteins package eukaryotic DNA into repeating nucleosomal units that are folded into higher-order chromatin fibers [Luger and Richmond, *Curr. Opin. Genet. Dev.* 8:140-146 (1998)]. A portion of the histone that comprises roughly a quarter of the protein protrudes from the chromatin surface, and is thereby sensitive to proteolytic enzymes [van Holde, in *Chromatin* (Rich, A,. *ed.*, Springer, New York) pages111-148 (1988); Hect *et al.*, *Cell* 80:583-592 (1995)]. This portion of the histone is known as the "histone tail". Histone tails tend to be free for protein-protein interaction, and are also the portion of the histone most prone to

for protein-protein interaction, and are also the portion of the histone most prone to post-translational modification. Such post-translational modification includes acetylation, phosphorylation, methylation, ubiquitination, and ADP-ribosylation [van Holde, in *Chromatin* (Rich, A,. ed., Springer, New York) pages111-148 (1988)].

Of all classes of proteins, histones are amongst the most susceptible to posttranslational modification. Perhaps the best studied post-translational modification of
histones is the acetylation of specific lysine residues [Grunstin, M., *Nature*, **389**:349352 (1997)]. Indeed, acetylation of histone lysine residues has been suggested to
play a pivotal role in chromatin remodeling and gene activation. Consistently,
distinct classes of enzymes, namely histone acetyltransferases (HATs) and histone
deacetylases (HDACs), acetylate or de-acetylate specific histone lysine residues
[Struhl, *Genes Dev.* **12**:599-606 (1998)].

Nearly all known nuclear HATs contain an approximately 110 amino acid sequence
known as the bromodomain [Jeanmougin et al., Trends in Biochemical Sciences,
22:151-153 (1997)], a protein motif that was initially discovered in Drosophila
brahma protein. Bromodomains are found in a large number of chromatin-associated
proteins and have now been identified in approximately 40 proteins, often adjacent to
other protein motifs [Jeanmougin et al., Trends in Biochemical Sciences, 22:151-153
(1997); Tamkun et al., Cell, 68:561-572 (1992): Hanes et al., Nucleic Acids Research,
20:2603 (1992)]. Proteins that contain a bromodomain often contain a second
bromodomain. However, despite the wide occurrence of bromodomains and their

likely role in chromatin regulation, their three-dimensional structure and binding partners heretofore have remained unknown.

Therefore, there is a need to identify a binding partner for a bromodomain. In addition, there is a need to identify agonists or antagonists to the bromodomainbinding partner complex. Since a preferred method of drug-screening relies on structure based drug design, there is also a need to determine the three-dimensional structure of a bromodomain. In this case, once the three dimensional structure of bromodomain is determined, potential agonists and/or potential antagonists can be designed with the aid of computer modeling [Bugg et al., Scientific American, Dec.:92-98 (1993); West et al., TIPS, 16:67-74 (1995); Dunbrack et al., Folding & Design, 2:27-42 (1997)]. However, heretofore the three-dimensional structure of the bromodomain has remained unknown. Therefore, there is a need for obtaining a form of the bromodomain that is amenable for NMR analysis and/or X-ray crystallographic 15 analysis. Furthermore, there is a need for the determination of the three-dimensional structure of the bromodomain. Finally, there is a need for procedures for related structural based drug design predicated on such structural data.

The citation of any reference herein should not be construed as an admission that such 20 reference is available as "Prior Art" to the instant application.

SUMMARY OF THE INVENTION

The present invention provides, for the first time, that bromodomains bind to acetyl-25 lysine residues of proteins. The present invention also provides the three-dimensional structure of a bromodomain as well as the three-dimensional structure of a bromodomain-acetyl-histamine complex. The structural information provided can be employed in methods of identifying drugs that can modulate the cellular processes that involve bromodomain-acetyl-lysine interactions. These interactions include 30 chromatin remodeling, which is a required step in eukaryotic transcription. In a particular embodiment, the three-dimensional structural information is used in the design of an inhibitor of leukemia.

The present invention provides an isolated nucleic acid that encodes a peptide consisting of about 21 to 40 amino acids that comprises a ZA loop of a bromodomain. In a preferred embodiment the peptide comprises about 23 to 34 amino acids. The isolated nucleic acid can further comprise a heterologous nucleotide sequence.

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In a preferred embodiment the peptide comprises the amino acid sequence of SEQ ID NO:3. In another embodiment the peptide comprises the amino acid sequence of SEQ ID NO:43. In particular embodiments the ZA loop is obtained from the bromodomain having the amino acid sequence of SEQ ID NO:7, or SEQ ID NO:8, or SEQ ID NO:9, or SEQ ID NO:10, or SEQ ID NO:11, or SEQ ID NO:12, or SEQ ID NO:13, or SEQ ID NO:14, or SEQ ID NO:15, or SEQ ID NO:16, or SEQ ID NO:17, or SEQ ID NO:18, or SEQ ID NO:19, or SEQ ID NO:20, or SEQ ID NO:21, or SEQ ID NO: 22, or SEQ ID NO:23, or SEQ ID NO:24, or SEQ ID NO:25, or SEQ ID NO:26, or SEQ ID NO:27, or SEQ ID NO:28, or SEQ ID NO:29, or SEQ ID NO:30, or SEQ ID NO: or SEQ ID NO:31, or SEQ ID NO:32, or SEQ ID NO:33, or SEQ ID NO:34, or SEQ ID NO:35, or SEQ ID NO:36, or SEQ ID NO:37, or SEQ ID NO:38, or SEQ ID NO: or SEQ ID NO:39, or SEQ ID NO:40, or SEQ ID NO:41, or SEQ ID NO:42.

The present invention further provides a recombinant DNA molecule that comprises
an isolated nucleic acid of the present invention, as described above, with or without a
heterologous nucleotide sequence. Such a recombinant DNA molecule can be
operatively linked to an expression control sequence and can be part of an expression
vector. The present invention further provides a cell that comprises such an
expression vector. The cell can be either a eukaryotic or a prokaryotic cell. The
present invention further provides a method of expressing the peptides of the present
invention or fragments thereof in this cell. One such method comprises culturing the
cell in an appropriate cell culture medium under conditions that provide for
expression of the peptide by the cell.

30 The present invention further provides a peptide consisting of about 21 to 40 amino acids that comprises a ZA loop of a bromodomain. In a preferred embodiment the

peptide comprises about 23 to 34 amino acids. The present invention also provides fusion proteins or peptides comprising these peptides.

In a preferred embodiment the peptide comprises the amino acid sequence of SEQ ID NO:3. In another embodiment the peptide comprises the amino acid sequence of SEQ ID NO:43. In particular embodiments the ZA loop is obtained from the bromodomain having the amino acid sequence of SEQ ID NO:7, or SEQ ID NO:8, or SEQ ID NO:9, or SEQ ID NO:10, or SEQ ID NO:11, or SEQ ID NO:12, or SEQ ID NO:13, or SEQ ID NO:14, or SEQ ID NO:15, or SEQ ID NO:16, or SEQ ID NO:17, or SEQ ID NO:18, or SEQ ID NO:19, or SEQ ID NO:20, or SEQ ID NO:21, or SEQ ID NO: 22, or SEQ ID NO:23, or SEQ ID NO:24, or SEQ ID NO:25, or SEQ ID NO:26, or SEQ ID NO:27, or SEQ ID NO:38, or SEQ ID NO:30, or SEQ ID NO: or SEQ ID NO:31, or SEQ ID NO:32, or SEQ ID NO:33, or SEQ ID NO:34, or SEQ ID NO:35, or SEQ ID NO:36, or SEQ ID NO:37, or SEQ ID NO:38, or SEQ ID NO:40.

The present invention also provides antibodies raised against the peptides/proteins of the present invention, or raised against an antigenic fragment of these proteins/fragments. In a particular embodiment an antibody is raised against a fragment of the ZA loop of a bromodomain. In another embodiment an antibody is raised against a fragment of a protein or peptide that comprises an acetyl-lysine, wherein the protein or peptide can bind to a bromodomain. Such fragments can be conjugated to a carrier protein or be part of a fusion protein. In one embodiment the antibody is a polyclonal antibody. In another embodiment, the antibody is a monoclonal antibody. A hybridoma that makes the monoclonal antibody is also part of the present invention. In a particular embodiment the antibody is a chimeric antibody. Antibodies that can specifically recognize acetyl-lysine residues involved bromodomain binding are also part of the present invention.

30 In another aspect of the present invention a method is provided for identifying a compound that modulates the affinity of a bromodomain for a ligand (and/or protein) that comprises an acetylated lysine. One such embodiment comprises contacting the

bromodomain and the ligand in the presence of a compound under conditions that, the bromodomain and the ligand bind in the absence of the compound. The affinity of the bromodomain for the ligand is then determined (e.g., measured). A compound is identified as a compound that modulates the affinty of the bromodomain for the ligand when there is a change in the affinity of the bromodomain for the ligand in the presence of the compound. When the affinity of the bromodomain for the ligand increases in the presence of the compound, the compound is identified as a promoting agent for the bromodomain-ligand complex. When the affinity of the bromodomain for the ligand decreases in the presence of the compound, the compound is identified as an inhibitor of the bromodomain-ligand complex. In a preferred embodiment, the 10 compound to be tested is pre-selected by performing rational drug design with the set of atomic coordinates obtained from one or more of Tables 1-6. More preferably the selecting is performed in conjunction with computer modeling. In a particular embodiment, the compound is selected by performing rational drug design with the set of atomic coordinates obtained from a set of atomic coordinates defining the three-15 dimensional structure of a bromodomain consisting of the amino acid sequence of SEO ID NO:7 alone or with acetyl-histamine.

The present invention also provides a method of identifying a compound that

modulates the stability of a bromodomain-acetyl-lysine binding complex. One such
embodiment comprises contacting the bromodomain-acetyl-lysine binding complex in
the presence of the compound under conditions in which the bromodomain-acetyllysine binding complex forms in the absence of the compound. The stability of the
bromodomain-acetyl-lysine binding complex is then determined (e.g., measured). A

compound is identified as a compound that modulates the stability of the
bromodomain-acetyl-lysine binding complex, when there is a change in the stability
of the bromodomain-acetyl-lysine binding complex in the presence of that compound.
When the stability of the bromodomain-acetyl-lysine binding complex increases in the
presence of the compound, the compound is identified as a stabilizing agent. When
the stability of the bromodomain-acetyl-lysine binding complex decreases in the
presence of the compound, the compound is identified as an inhibitor. In a preferred
embodiment, the compound to be tested is pre-selected by performing rational drug

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design with the set of atomic coordinates obtained from one or more of Tables 1-6. More preferably the selecting is performed in conjunction with computer modeling. In a particular embodiment, the compound is selected by performing rational drug design with the set of atomic coordinates obtained from a set of atomic coordinates defining the three-dimensional structure of a bromodomain consisting of the amino acid sequence of SEQ ID NO:7 alone or with acetyl-histamine.

As anyone having skill in the art of drug development would readily understand, the potential drugs selected by the above methodologies can be refined by re-testing in appropriate drug assays, including those disclosed herein. Chemical analogs of such potential drugs can be obtained (either through chemical synthesis or drug libraries) and be analogously tested. Therefore, methods comprising successive iterations of the steps of the individual drug assays, as exemplified herein, using either repetitive or different binding studies, or transcription activation studies or other such studies are envisioned in the present invention. In addition, potential drugs may be identified first by rapid throughput drug screening, as described below, prior to performing computer modeling on a potential drug using the three-dimensional structure of the bromodomain.

20 The present invention further comprises all of the potential, selected, and putative compounds (drugs) identified by the methods of the present invention, as well as the final drugs themselves identified with the methods of the present invention.

The present invention further provides a method for identifying a potential binding partner for a protein (*e.g.*, a histone) comprising an acetyl-lysine. One such embodiment comprises contacting the protein with a polypeptide comprising a bromodomain. In a preferred embodiment the bromodomain comprises the amino acid sequence of SEQ ID NO:3. In particular embodiments the bromodomain has the amino acid sequence of SEQ ID NO:7, or SEQ ID NO:8, or SEQ ID NO:9, or SEQ ID NO:10, or SEQ ID NO:11, or SEQ ID NO:12, or SEQ ID NO:13, or SEQ ID NO:14, or SEQ ID NO:15, or SEQ ID NO:16, or SEQ ID NO:17, or SEQ ID NO:18, or SEQ ID NO:19, or SEQ ID NO:20, or SEQ ID NO:21, or SEQ ID NO:22, or SEQ ID NO:22, or SEQ ID NO:20, or SEQ ID NO:21, or SEQ ID NO:22, or SEQ ID NO:20, or SEQ ID NO:21, or SEQ ID NO:22, or SEQ ID NO:20, or SEQ ID NO:21, or SEQ ID NO:22, or SEQ ID NO:21, or SEQ ID NO:22, or SEQ ID NO:23, or SEQ ID NO:24, or SEQ ID NO:25, or SEQ ID NO:25, or SEQ ID NO:25, or SEQ ID NO:26, or SEQ ID NO:27, or SEQ ID NO:27, or SEQ ID NO:29, or SEQ ID NO:20, or SEQ ID NO:21, or SEQ ID NO:20, or SEQ ID NO:21, or SEQ ID NO:22, or SEQ ID NO:20, or SEQ ID NO:21, or SEQ ID NO:22, or

NO:23, or SEQ ID NO:24, or SEQ ID NO:25, or SEQ ID NO:26, or SEQ ID NO:27, or SEQ ID NO:28, or SEQ ID NO:29, or SEQ ID NO:30, or SEQ ID NO: or SEQ ID NO:31, or SEQ ID NO:32, or SEQ ID NO: 33, or SEQ ID NO:34, or SEQ ID NO:35, or SEQ ID NO:36, or SEQ ID NO:37, or SEQ ID NO:38, or SEQ ID NO: or SEQ ID NO:39, or SEQ ID NO:40, or SEQ ID NO:41, or SEQ ID NO:42.

The present invention further provides a method for identifying a protein having a bromodomain. One such embodiment comprises contacting a cellular extract with a peptide comprising an acetyl-lysine.

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The present invention further provides agents that can inhibit the binding of a bromodomain with a protein comprising an acetyl-lysine. In one embodiment the agent is ISYGR-AcK-KRRQRR (SEQ ID NO:4). In another embodiment the agent is ARKSTGG-AcK-APRKQL (SEQ ID NO:5). In still another embodiment the agent is QSTSRHK-AcK-LMFKTE (SEQ ID NO:6). In yet another embodiment the agent is an analog of acetyl-lysine such as acetyl-histamine. In still another embodiment the agent is an antibody that recognizes an acetyl-lysine of a protein binding partner of a bromodomain. In a preferred embodiment the agent is an antibody raised against a ZA loop of a bromodomain. These agents can be used as pharmaceuticals in compositions that contain a pharmaceutically acceptable carrier for example, or in the various drug assays of the present invention, serving as controls to demonstrate specificity.

Accordingly, it is a principal object of the present invention to provide the threedimensional coordinates of a bromodomain.

It is a further object of the present invention to provide the three-dimensional coordinates of a bromodomain complexed with acetyl-histamine.

30 It is a further object of the present invention to provide an assay for identifying proteins that contain bromodomains that bind proteins that comprise acetyl-lysine.

It is a further object of the present invention to provide methods of identifying drugs that can modulate the bromodomain-acetyl-lysine binding complex.

It is a further object of the present invention to provide methods of identifying drugs that can inhibit the binding of a bromodomain to a protein containing acetyl-lysine.

It is a further object of the present invention to provide methods that incorporate the use of rational design for identifying such drugs.

10 It is a further object of the present invention to provide a method of identifying drugs that can treat leukemia.

It is a further object of the present invention to provide a method of identifying drugs that can treat and/or prevent AIDS.

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These and other aspects of the present invention will be better appreciated by reference to the following drawings and Detailed Description.

BRIEF DESCRIPTION OF THE DRAWINGS

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Figure 1. Structure-based sequence alignment of a selected number of bromodomains. The sequences were aligned based on the NMR-derived structure of the P/CAF bromodomain, and the predicated four α-helices are shown in green boxes. Bromodomains are grouped on the basis of the sequence and/or functional similarities as described by Jeanmougin *et al.*, [Trends in Biochemical *Sciences*, **22:**151-153 (1997)]. Residue numbers of the P/CAF bromodomain are indicated above its sequence. Three absolutely conserved residues, corresponding to Pro751, Pro767, and Asn803 in the P/CAF bromodomain, are shown in red. Highly conserved residues are colored in blue. The residues of the P/CAF bromodomain that interact with acetyl-histamine, as determined by intermolecular NOEs, are indicated by asterisks. The ZA loop, which is critical for acetyl-lysine binding, for each of the indicated bromodomains is also identified. The underlined residues were changed individually

by site-directed mutagenesis to Ala. Genbank accession numbers for the proteins are as indicated in Table 8, in the Example below, along with the SEQ ID NOs. for the bromodomain sequences.

- 5 Figures 2A-2H depict the structure of the P/CAF bromodomain. Figures 2A-2B shows the stereoview of the C_{α} trace of 30 superimposed NMR-derived structures of the bromodomain (residues 722-830). The N-terminal four residues (SKEP) which are structurally disordered are omitted for clarity. For the final 30 structures, the root-mean-square deviations (RMSDs) of the backbone and all heavy atoms are 0.63
- ± 0.11Å and 1.15 ± 0.12Å for residues 723-830, respectively. The RMSDs of the backbone and all heavy atoms for the four α-helices (residues 727-743, 770-776, 785-802, and 807-827), are 0.34 ± 0.04Å and 0.87 ± 0.06Å, respectively. Figures 2C-2D show the stereoview of the bromodomain structures from the bottom of the protein, which is rotated approximately 90° from the orientation in Figures 2A-2B.
- 15 Figure 2E shows the Ribbons [Carson, M., J. Appl. Crystallogr. 24:958-961 (1991)] depiction of the averaged minimized NMR structure of the P/CAF bromodomain. The orientation of Figure 2E is as shown in Figures 2A-2B. Figures 2F-2G are schematic representations of the overall topology of the up-and-down four-helix bundle folds with the opposite handedness. The left-handed fold is seen in
- bromodomain, cytochrome b_5 , and T4 lysozyme (left, Figure 2F), whereas the right-handed four-helix bundles are observed in proteins such as hemerythrin and cytochrome b_{562} (right, Figure 2G) [Richardson, J., Adv. Protein Chem., 34:167-339 (1989); Presnell and Cohen, Proc. Natl. Acad. Sci. USA 86:6592-6596 (1989)]. Figure 2H is a molecular surface representation of the electrostatic potential (blue =
 - positive; red = negative) of the bromodomain calculated in GRASP [Nicholls *et al.*, *Biophys. J.* **64**:166-170 (1993)]. The hydrophobic and aromatic residues (Tyr809, Tyr802, Tyr760, Ala757, and Val752) located between the ZA and BC loops are indicated.
- 30 Figures 3A-3C show the binding of the P/CAF bromodomain to AcK. Figure 3A shows the superimposed region of the 2D ¹⁵N-HSQC spectra of the bromodomain (approximately 0.5 mM) in its free form (red) and complexed to the AcK-containing

H4 peptide (molar ratio 1:6) (black). Figure 3B is the Ribbon and dotted-surface diagram of the bromodomain depicting the location of the lysine-acetylated H4 peptide binding site. The color coding reflects the chemical shift changes ($\Delta\delta$) of the backbone amide ¹H and ¹⁵N resonances upon binding to the AcK peptide as observed in the ¹⁵N-HSQC spectra. The normalized weighted average of the chemical shift changes was calculated by $\Delta_a/\Delta_{max} = [\Delta \hat{\sigma}_{NH} + \Delta \hat{\sigma}_{N}/25)/2]^{1/2}/\Delta_{max}$, where Δ_{max} is the maximum weighted chemical shift difference observed for Tyr809 (0.16ppm). The backbone atoms are color-coded in red, yellow, or green for residues that have Δ_a/Δ_{max} of >0.6 (Tyr809, Glu808, Asn803, and Ala757), 0.2-0.6 (Ala813, Tyr802, Tyr760, and Val752), or <0.2 (Cys812, Ser807, Cys799, Phe796, and Phe748), respectively. The non-perturbed residues are shown in blue. Figure 3C shows the chemical structures of acetyl-lysine, acetyl-histamine, and acetyl-histidine.

Figure 4 depicts the acetyl-lysine binding pocket. This is the Ribbons [Carson, M., *J. Appl. Crystallogr.* **24**:958-961 (1991)] depiction of a portion of the P/CAF bromodomain complexed with the acetyl-histamine. The ligand is color-coded by atom type.

DETAILED DESCRIPTION OF THE INVENTION

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The present invention identifies a general binding partner (ligand) for the protein motif known as the bromodomain. Indeed, by combining structural and site-directed mutagenesis studies the present invention demonstrates that bromodomains can interact specifically with acetyl-lysine (AcK), making them the first protein modules known to exhibit such interactions. Like other modular domains, such as Src homology-2 (SH2) and phosphotyrosine binding (PTB) domains, which specifically interact with phosphotyrosine-containing proteins, the bromodomain/acetyl-lysine recognition provides a means to regulate protein-protein interactions via protein lysine acetylation. The nature of the acetyl-lysine recognition by the bromodomain is similar to that of histone acetyltransferase interaction with acetyl-CoA. The present invention therefore couples for the first time, the functionality of the bromodomain with the HAT activity of coactivators in the regulation of gene transcription.

The present invention further provides both a nuclear magnetic resonance (NMR) structure of the bromodomain from the HAT coactivator P/CAF (p300/CBP-associated factor) as well as the structure for the P/CAF bromodomain in complex with acetyl-histamine. The structure reveals an unusual left-handed up-and-down four-helix bundle.

The results disclosed herein explain prior deletion experiments which showed that the bromodomain is indispensable for the function of GCN5 in yeast.

Bromodomain-AcK binding also appears to be important for the assembly and activity of multiprotein complexes in transcriptional activation. The results reported herein therefore, form the foundation for identifying specific biological ligands and for defining the molecular mechanisms by which the extensive family of bromodomains participate in chromatin remodeling and transcriptional activation

As disclosed herein, the binding partner for the bromodomain is a peptide or protein comprising an acetyl-lysine (AcK). Interestingly, whereas a free acetyl-lysine does not appear to bind the bromodomain, an analog of the acetyl-lysine, acetyl-histamine, does. This is most likely due to the additional charge present in the free amino acid. Consistently, free acetyl-histidine also does not to bind the bromodomain.

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The present invention further provides a key region of the bromodomain for the interaction with its acetyl-lysine binding partner, the ZA loop. The amino acid sequence of the ZA loop is defined in Figure 1 for a number of bromodomains and is depicted in Figure 2A for P/CAF. In a particular embodiment, the ZA loop has between about 21 and 40 amino acid residues comprising the amino acid sequence of:

$$F X_{2-3} P X_{5-8} J_{P/K/H} X Y J_{Y/F/H} X_5 P J_{M/I/V} D$$
 (SEQ ID NO:3)

more preferably the ZA loop has about 23 to 34 amino acid residues and comprises the amino acid sequence:

$$X_2 F X_{2-3} P X_{5-8} J_{P/K/H} X Y J_{Y/F/H} X_5 P J_{M/I/V} D$$
 (SEQ ID NO:43)

- (1) The single letter amino acid code is used in this description, *i.e.*, "F" for phenylalanine; "P" for proline; "Y" for tyrosine; and "D" for aspartic acid.
- (2) "X" indicates any amino acid (an undesignated amino acid); and X, X_2 , X_{2-3} , X_5 , and X_{5-8} indicates one undesignated amino acid, two consecutive undesignated amino acids, two or three consecutive undesignated amino acids, five consecutive undesignated amino acids, and five to eight consecutive undesignated amino acids respectively.
- (3) "J" indicates that identity of the amino acid is restricted to a particular group, again the one letter code is used

10 : (i) $J_{P/K/H}$ is either proline, lysine or histidine.

- (ii) J_{Y/F/H} is either tyrosine, phenylalanine or histidine.
- (iii) $J_{M/I/V}$ is either methionine, isoleucine, or valine.

Since this region of the bromodomain is important in binding its acetyl-lysine binding partner, antibodies specifically raised against this region are also included in the present invention. In a particular embodiment, the antibody is a humanized chimeric antibody that can be used in therapeutic treatment. Thus monoclonal, chimeric, and polyclonal antibodies raised against bromodomains, preferably against amino acid residues in the ZA loop region are part of the present invention. In a specific embodiment the antibody is raised against a peptide, fusion peptide or conjugated peptide consisting of amino acid residues 746 to 765 of SEQ ID NO:2, *i.e.*, WPFMEPVKRTEAPGYYEVIR (SEQ ID NO:44). Such antibodies can be used in the treatment of leukemia for example. Alternatively, these antibodies can be used in drug discovery assays.

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Thus the present invention provides the first detailed structural information regarding a bromodomain and a bromodomain complexed with its acetylated binding partner. The present invention therefore provides the three-dimensional structure of the bromodomain and a bromodomain acetylated binding partner complex. Since the interaction of the bromodomain with a histone for example, can play a significant role in chromatin remodeling/regulation, the structural information provided herein can be employed in methods of identifying drugs that can modulate basic cell processes by modulating the transcription. In a particular embodiment, the three-dimensional

conditions.

structural information is used in the design of a small organic molecule for the treatment of cancer.

Indeed, the bromodomain and lysine-acetylated protein interaction can now be implicated to play a causal role in the development of a number of diseases including cancers such as leukemia. For example, chromatin remodeling plays a central role in the etiology of viral infection and cancer [Archer and Hodin, Curr. Opin. Genet. Biol. 9:171-174 (1999); Jacobson and Pillus, Curr. Opin. Genet. Biol. 9:175-184 (1999)]. Both altered histone acetylation/deacetylation and aberrant forms of chromatin-10 remodeling complexes are associated with human diseases. Furthermore, chromosomal translocation of various cellular genes with those encoding HATs and subunits of chromatin remodeling complexes have been implicated in leukomogenesis. The MOZ (monocytic leukemia zinc finger) and MLL/ALL-1 genes are frequently fused to the gene encoding the co-activator HAT CBP [Sobulo et al., Proc. Natl. Acad. Sci. USA 94:8732-8737(1997)]. The resulting fusion protein MLL-CBP contains the tandem bromodomain-PHD finger-HAT domain of CBP. It also has been shown that both the bromodomain and HAT domain of CBP are required for leukomogenesis, because deletion of either the bromodomain or the HAT domain results in loss of the MLL-CBP fusion protein's ability for cell transform. These results indicate that the 20 CBP bromodomain, and more particularly, the ZA loop of the CBP bromodomain, is an excellent target for developing drugs that interfere with the bromodomain acetyllysine interaction that can be used in the treatment of human acute leukemia. In addition, an antibody (e.g., a humanized antibody) raised specifically against a peptide from the ZA loop of the CBP bromodomain could also be effective for treating these

Furthermore, the human immunodeficiency virus type 1 (HIV-1) *trans*-activator protein, Tat, is absolutely required for productive HIV viral replication [Jeang and Gatignol, *Curr. Top. Microbiol. Immunol.*, **188**:123-144(1994)]. Recently, it has been shown that HIV-1 Tat transcriptional activity is tightly regulated by lysine acetylation [Kiernan *et al.*, *EMBO Journal* **18**:6106-6118 (1999)]. Therefore, the interaction of the acetyl-lysine of Tat with one or more bromodomain-containing proteins associated

with chromatin remodeling could mediate gene transcription. Thus, the bromodomain/lysine-acetylated Tat interaction could also serve as a drug target for blocking HIV replication in cells. Similarly, an antibody raised specifically against a peptide from the ZA loop of the bromodomain could also be effective for treating these conditions.

In addition, based on the new structural information disclosed herein, the key amino acid residues for the binding of a given bromodomain and its binding partner can be identified and further elucidated using basic mutagenesis and standard isothermal titration calorimetry, for example. In this case, both the crucial amino acids for the bromodomain and the binding partner (i.e., apart from the acetyl-lysine) can be readily determined and are also part of the present invention.

The results obtained from the structural and functional studies disclosed herein provide the foundation for both high throughput drug screening and structure-based rational drug design. The agents identified by this procedure will be useful for ameliorating conditions involving chromatin remodeling/regulation as indicated above.

Structure based rational drug design is the most efficient method of drug development.

However, heretofore, no information has been disclosed regarding the structure of the bromodomain or more importantly, its interaction with the acetyl-lysine of its binding partner. Obtaining detailed structural information requires an extensive NMR or X-ray crystallographic analysis. By determining and then exploiting the detailed structural information of the bromodomain and of the bromodomain/acetyl-histamine

(exemplified by NMR analysis below) the present invention provides novel methods for developing new drugs through structure based rational drug design.

Thus the present invention provides representative sets of the atomic structure coordinates of the free form of the P/CAF bromodomain (Table 5) and of the P/CAF bromodomain-acetyl-histamine complex (Table 6) which were both obtained by NMR analysis. A Ribbon diagram of the three-dimensional structure of the P/CAF bromodomain is depicted in Figure 2E, whereas the P/CAF bromodomain acetyl-lysine

binding pocket is depicted in Figure 4. The present invention also provides the NOE-derived distance restraints, and NMR chemical shift assignments of the P/CAF bromodomain. The NMR chemical shift assignments of the P/CAF bromodomain are included in the chemical shift table (Table 1) for the ¹H-¹⁵N HSQC spectrum of P/CAF bromodomain. The unambiguous NOE-derived Inter-proton Distance Restraints (Table 2), the ambiguous NOE-derived Inter-proton Distance Restraints (Table 3) and the ¹H bonding restraints (Table 4) are also disclosed herein. The sample atomic coordinate data provided enable the skilled artisan to practice the invention. In addition, Tables 1-6 are also capable of being placed into a computer readable form which is also part of the present invention. Furthermore, methods of using these coordinates and chemical shifts and related information (including in computer readable forms) either individually or together in drug assays are also provided. More particularly, such atomic coordinates can be used to identify potential ligands or drugs which will modulate the binding of a bromodomain with its binding partner.

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Therefore, if appearing herein, the following terms shall have the definitions set out below.

As used herein a "bromodomain-acetyl-lysine binding complex" is a binding complex between a bromodomain or fragment thereof and either a peptide/polypeptide comprising an acetyl-lysine (or an analog of acetyl-lysine), or a free analog of acetyl-lysine, such as acetyl-histamine disclosed in the Example below. Preferably, the peptide comprises at least six amino acids in addition to the acetyl-lysine. The dissociation constant of a bromodomain-acetyl-lysine binding complex is dependent on whether the lysine residue or analog thereof is acetylated or not, such that the affinity for the bromodomain and the peptide comprising the lysine residue (for example) significantly decreases when that lysine residue is not acetylated.

As used herein a "ZA loop" of a bromodomain is one protion of a bromodomain that is involved in the binding of the bromodomain to the acetyl-lysine. The structure of the ZA loop of the bromodomain of for P/CAF is depicted in Figure 2A. The ZA loop has between about 20 and 40 amino acids and comprises the amino acid sequence of SEQ ID NO:3. More preferably the ZA loop comprises between about 23 to 34 amino acids

and has the amino acid sequence SEQ ID NO:43. The amino acid sequence of the ZA loop for a representative number of individual bromodomains is shown in Figure 1.

A "polypeptide" or "peptide" comprising a fragment of a bromodomain, such as the ZA loop, or a peptide or polypeptide comprising an acetyl-lysine, as used herein can be the "fragment" alone, or a larger chimeric or fusion peptide/protein which contains the "fragment".

As used herein the terms "fusion protein" and "fusion peptide" are used

interchangeably and encompass "chimeric proteins and/or chimeric peptides" and
fusion "intein proteins/peptides". A fusion protein comprises at least a portion of a
protein or peptide of the present invention, e.g., a bromodomain, joined via a peptide
bond to at least a portion of another protein or peptide including e.g., a second
bromodomain in a chimeric fusion protein. In a particular embodiment the portion of
the bromodomain is antigenic. Fusion proteins can comprise a marker protein or
peptide, or a protein or peptide that aids in the isolation and/or purification of the
protein, for example.

As used herein, and unless otherwise specified, the terms "agent", "potential drug", "compound", "test compound" or "potential compound" are used interchangeably, and refer to chemicals which potentially have a use as an inhibitor or activator/stabilizer of bromodomain-acetyl-lysine binding. Therefore, such "agents", "potential drugs", "compounds" and "potential compounds" may be used, as described herein, in drug assays and drug screens and the like.

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As used herein a "small organic molecule" is an organic compound, including a peptide [or organic compound complexed with an inorganic compound (e.g., metal)] that has a molecular weight of less than 3 Kilodaltons. Such small organic molecules can be included as agents, etc. as defined above.

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As used herein the term "binds to" is meant to include all such specific interactions that result in two or more molecules showing a preference for one another relative to some third molecule. This includes processes such as covalent, ionic, hydrophobic and

hydrogen bonding but does not include non-specific associations such as solvent preferences.

As used herein the term "about" signifies that a value is within twenty percent of the indicated value *i.e.*, a peptide containing "about" 20 amino acid residues can contain between 16 and 24 amino acid residues.

General Techniques for Constructing Nucleic Acids That Encode the Bromodomains and Fragments Thereof (Incuding, ZA Loops); and the Bromodomain Binding Partners of the Present Invention.

In accordance with the present invention there may be employed conventional molecular biology, microbiology, and recombinant DNA techniques within the skill of the art. Such techniques are explained fully in the literature. See, *e.g.*, Sambrook,

Fritsch & Maniatis, *Molecular Cloning: A Laboratory Manual*, Second Edition (1989)
Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York (herein
"Sambrook *et al.*, 1989"); *DNA Cloning: A Practical Approach*, Volumes I and II
(D.N. Glover ed. 1985); *Oligonucleotide Synthesis* (M.J. Gait ed. 1984); *Nucleic Acid*

Hybridization [B.D. Hames & S.J. Higgins eds. (1985)]; Transcription And

20 Translation [B.D. Hames & S.J. Higgins, eds. (1984)]; Animal Cell Culture [R.I. Freshney, ed. (1986)]; Immobilized Cells And Enzymes [IRL Press, (1986)]; B. Perbal, A Practical Guide To Molecular Cloning (1984); F.M. Ausubel et al. (eds.), Current Protocols in Molecular Biology, John Wiley & Sons, Inc. (1994).

25 Therefore, if appearing herein, the following terms shall have the definitions set out below.

As used herein, the term "gene" refers to an assembly of nucleotides that encode a polypeptide, and includes cDNA and genomic DNA nucleic acids.

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A "vector" is a replicon, such as plasmid, phage or cosmid, to which another DNA segment may be attached so as to bring about the replication of the attached segment. A "replicon" is any genetic element (e.g., plasmid, chromosome, virus) that functions

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as an autonomous unit of DNA replication in vivo, i.e., capable of replication under its own control.

A "cassette" refers to a segment of DNA that can be inserted into a vector at specific restriction sites. The segment of DNA encodes a polypeptide of interest, and the cassette and restriction sites are designed to ensure insertion of the cassette in the proper reading frame for transcription and translation.

A cell has been "transfected" by exogenous or heterologous DNA when such DNA has been introduced inside the cell.

A "nucleic acid molecule" refers to the phosphate ester polymeric form of ribonucleosides (adenosine, guanosine, uridine or cytidine; "RNA molecules") or deoxyribonucleosides (deoxyadenosine, deoxyguanosine, deoxythymidine, or deoxycytidine; "DNA molecules"), or any phosphoester analogues thereof, such as phosphorothioates and thioesters, in either single stranded form, or a double-stranded helix. Double stranded DNA-DNA, DNA-RNA and RNA-RNA helices are possible. The term nucleic acid molecule, and in particular DNA or RNA molecule, refers only to the primary and secondary structure of the molecule, and does not limit it to any particular tertiary forms. Thus, this term includes double-stranded DNA found, inter alia, in linear or circular DNA molecules (e.g., restriction fragments), plasmids, and chromosomes. In discussing the structure of particular double-stranded DNA molecules, sequences may be described herein according to the normal convention of giving only the sequence in the 5' to 3' direction along the nontranscribed strand of DNA (i.e., the strand having a sequence homologous to the mRNA). A "recombinant DNA molecule" is a DNA molecule that has undergone a molecular biological manipulation.

A nucleic acid molecule is "hybridizable" to another nucleic acid molecule, such as a cDNA, genomic DNA, or RNA, when a single stranded form of the nucleic acid molecule can anneal to the other nucleic acid molecule under the appropriate conditions of temperature and solution ionic strength (see Sambrook et al., supra). The conditions of temperature and ionic strength determine the "stringency" of the

hybridization. For preliminary screening for homologous nucleic acids, low stringency hybridization conditions, corresponding to a T_m of 55°, can be used, e.g., 5x SSC, 0.1% SDS, 0.25% milk, and no formamide; or 30% formamide, 5x SSC, 0.5% SDS). Moderate stringency hybridization conditions correspond to a higher T_m, e.g., 40% formamide, with 5x or 6x SCC. High stringency hybridization conditions correspond to the highest T_m, e.g., 50% formamide, 5x or 6x SCC. Hybridization requires that the two nucleic acids contain complementary sequences, although depending on the stringency of the hybridization, mismatches between bases are possible. The appropriate stringency for hybridizing nucleic acids depends on the length of the nucleic acids and the degree of complementation, variables well known in the art. The 10 greater the degree of similarity or homology between two nucleotide sequences, the greater the value of T_m for hybrids of nucleic acids having those sequences. The relative stability (corresponding to higher T_m) of nucleic acid hybridizations decreases in the following order: RNA:RNA, DNA:RNA, DNA:DNA. For hybrids of greater than 100 nucleotides in length, equations for calculating T_m have been derived (see 15 Sambrook et al., supra, 9.50-10.51). For hybridization with shorter nucleic acids, i.e., oligonucleotides, the position of mismatches becomes more important, and the length of the oligonucleotide determines its specificity (see Sambrook et al., supra, 11.7-11.8). Preferably a minimum length for a hybridizable nucleic acid is at least about 12 nucleotides; preferably at least about 18 nucleotides; and more preferably the length is 20

In a specific embodiment, the term "standard hybridization conditions" refers to a T_m of 55°C, and utilizes conditions as set forth above. In a preferred embodiment, the T_m is 60°C; in a more preferred embodiment, the T_m is 65°C.

at least about 27 nucleotides; and most preferably 36 nucleotides.

A DNA "coding sequence" is a double-stranded DNA sequence which is transcribed and translated into a polypeptide in a cell *in vitro* or *in vivo* when placed under the control of appropriate regulatory sequences. The boundaries of the coding sequence are determined by a start codon at the 5' (amino) terminus and a translation stop codon at the 3' (carboxyl) terminus. A coding sequence can include, but is not limited to, prokaryotic sequences and synthetic DNA sequences. If the coding sequence is

intended for expression in a eukaryotic cell, a polyadenylation signal and transcription termination sequence will usually be located 3' to the coding sequence.

Transcriptional and translational control sequences are DNA regulatory sequences, such as promoters, enhancers, terminators, and the like, that provide for the expression of a coding sequence in a host cell. In eukaryotic cells, polyadenylation signals are control sequences.

A "promoter sequence" is a DNA regulatory region capable of binding RNA polymerase in a cell and initiating transcription of a downstream (3' direction) coding sequence. For purposes of defining the present invention, the promoter sequence is bounded at its 3' terminus by the transcription initiation site and extends upstream (5' direction) to include the minimum number of bases or elements necessary to initiate transcription at levels detectable above background. Within the promoter sequence will be found a transcription initiation site (conveniently defined for example, by mapping with nuclease S1), as well as protein binding domains (consensus sequences) responsible for the binding of RNA polymerase.

A coding sequence is "under the control" of transcriptional and translational control sequences in a cell when RNA polymerase transcribes the coding sequence into mRNA, which is then trans-RNA spliced and translated into the protein encoded by the coding sequence.

A DNA sequence is "operatively linked" to an expression control sequence when the
expression control sequence controls and regulates the transcription and translation of
that DNA sequence. The term "operatively linked" includes having an appropriate
start signal (e.g., ATG) in front of the DNA sequence to be expressed and maintaining
the correct reading frame to permit expression of the DNA sequence under the control
of the expression control sequence and production of the desired product encoded by
the DNA sequence. If a gene that one desires to insert into a recombinant DNA
molecule does not contain an appropriate start signal, such a start signal can be inserted
in front of the gene.

As used herein, the term "homologous" in all its grammatical forms refers to the relationship between proteins that possess a "common evolutionary origin," including proteins from superfamilies (e.g., the immunoglobulin superfamily) and homologous proteins from different species (e.g., myosin light chain, etc.) [Reeck et al., Cell, 50:667 (1987)]. Such proteins have sequence homology as reflected by their high degree of sequence similarity.

Accordingly, the term "sequence similarity" in all its grammatical forms refers to the degree of identity or correspondence between nucleic acid or amino acid sequences of proteins that may or may not share a common evolutionary origin (see Reeck et al., supra). However, in common usage and in the instant application, the term "homologous," when modified with an adverb such as "highly," may refer to sequence similarity and not a common evolutionary origin.

15 Two DNA sequences are "substantially homologous" when at least about 60% (preferably at least about 80%, and most preferably at least about 90 or 95%) of the nucleotides match over the defined length of the DNA sequences. Sequences that are substantially homologous can be identified by comparing the sequences using standard software available in sequence data banks, or in a Southern hybridization experiment under, for example, stringent conditions as defined for that particular system. Defining appropriate hybridization conditions is within the skill of the art. See, e.g., Maniatis et al., supra; DNA Cloning, Vols. I & II, supra; Nucleic Acid Hybridization, supra.

As used herein an amino acid sequence is 100% "homologous" to a second amino acid sequence if the two amino acid sequences are identical, and/or differ only by neutral or conservative substitutions as defined below. Accordingly, an amino acid sequence is 50% "homologous" to a second amino acid sequence if 50% of the two amino acid sequences are identical, and/or differ only by neutral or conservative substitutions.

30 As used herein, DNA and protein sequence percent identity can be determined using MacVector 6.0.1, Oxford Molecular Group PLC (1996) and the Clustal W algorithm with the alignment default parameters, and default parameters for identity. These

commercially available programs can also be used to determine sequence similarity using the same or analogous default parameters.

The term "corresponding to" is used herein to refer similar or homologous sequences, whether the exact position is identical or different from the molecule to which the similarity or homology is measured. Thus, the term "corresponding to" refers to the sequence similarity, and not the numbering of the amino acid residues or nucleotide bases.

As used herein a "heterologous nucleotide sequence" is a nucleotide sequence that is added to a nucleotide sequence of the present invention by recombinant methods to form a nucleic acid which is not naturally formed in nature. Such nucleic acids can encode fusion proteins or peptides, including chimeric proteins and peptides. Thus the heterologous nucleotide sequence can encode peptides and/or proteins which contain regulatory and/or structural properties. In another such embodiment the heterologous nucleotide can encode a protein or peptide that functions as a means of detecting the protein or peptide encoded by the nucleotide sequence of the present invention after the recombinant nucleic acid is expressed. In still another such embodiment the heterologous nucleotide can function as a means of detecting a nucleotide sequence of the present invention. A heterologous nucleotide sequence can comprise non-coding sequences including restriction sites, regulatory sites, promoters and the like.

The present invention also relates to cloning vectors containing nucleic acids encoding analogs and derivatives of the bromodomains of the present invention and polypeptides/peptides that can bind a bromodomain when a lysine of the polypeptide/peptide is acetylated, including modified fragments, that have the same or homologous functional activity as the individual fragments, and homologs thereof. The production and use of derivatives and analogs related to the fragments are within the scope of the present invention.

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Due to the degeneracy of nucleotide coding sequences, other DNA sequences which encode substantially the same amino acid sequence as a nucleic acid encoding a protein

comprising bromodomain or bromodomain binding partner (i.e., when posttranscriptionally acetylated) of the present invention for example, may be used in the practice of the present invention. These include but are not limited to allelic genes, homologous genes from other species, which are altered by the substitution of different codons that encode the same amino acid residue within the sequence, thus producing a silent change. Likewise, the peptides and polypeptides of the present invention include, but are not limited to, those containing, as a primary amino acid sequence, analogous portions of their respective amino acid sequences including altered sequences in which functionally equivalent amino acid residues are substituted for residues within the sequence resulting in a conservative amino acid substitution. For example, one or more amino acid residues within the sequence can be substituted by another amino acid of a similar polarity, which acts as a functional equivalent, resulting in a silent alteration. Substitutes for an amino acid within the sequence may be selected from other members of the class to which the amino acid belongs. For example, the nonpolar (hydrophobic) amino acids include alanine, leucine, isoleucine, valine, proline, phenylalanine, tryptophan and methionine. Amino acids containing aromatic ring structures are phenylalanine, tryptophan, and tyrosine. The polar neutral amino acids include glycine, serine, threonine, cysteine, tyrosine, asparagine, and glutamine. The positively charged (basic) amino acids include arginine, and lysine.

Particularly preferred conserved amino acid exchanges are:

(a) Lys for Arg or vice versa such that a positive charge may be maintained;

The negatively charged (acidic) amino acids include aspartic acid and glutamic acid.

- (b) Glu for Asp or vice versa such that a negative charge may be maintained;
- 25 (c) Ser for Thr or vice versa such that a free -OH can be maintained;
 - (d) Gln for Asn or vice versa such that a free NH₂ can be maintained;
 - (e) Ile for Leu or for Val or vice versa as roughly equivalent hydrophobic amino acids; and
 - (f) Phe for Tyr or vice versa as roughly equivalent aromatic amino acids.

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A conservative change generally leads to less change in the structure and function of the resulting protein. A non-conservative change is more likely to alter the structure, activity or function of the resulting protein. The present invention should be considered to include sequences containing conservative changes which do not significantly alter the activity or binding characteristics of the resulting protein.

Specific amino acid residues for the P/CAF bromodomain have been identified that are important for binding, indicating a potential lower stringency for the substitution of the remaining amino acids residues.

All of the peptides/fragments of the present invention can be modified by being placed in a fusion or chimeric peptide or protein, or labeled *e.g.*, to have an N-terminal FLAG-tag, or H6 tag. In a particular embodiment the P/CAF bromodomain fragment can be modified to contain a marker protein such as green fluorescent protein as described in U.S. Patent No. 5,625,048 filed April 29, 1997 and WO 97/26333, published July 24, 1997 each of which are hereby incorporated by reference herein in their entireties.

The nucleic acids encoding peptides and protein fragments of the present invention and 15 analogs thereof can be produced by various methods known in the art. The manipulations which result in their production can occur at the gene or protein level [Sambrook et al., 1989, supra]. The nucleotide sequence can be cleaved at appropriate sites with restriction endonuclease(s), followed by further enzymatic modification if desired, isolated, and ligated in vitro. In addition a nucleic acid sequence can be mutated in vitro or in vivo, to create and/or destroy translation, initiation, and/or termination sequences, or to create variations in coding regions and/or form new restriction endonuclease sites or destroy preexisting ones, to facilitate further in vitro modification. Any technique for mutagenesis known in the art can be used, including but not limited to, in vitro site-directed mutagenesis [Hutchinson et al., J. Biol. Chem., 253:6551 (1978); Zoller and Smith, DNA, 3:479-488 (1984); Oliphant et al., Gene, 44:177 (1986); Hutchinson et al., Proc. Natl. Acad. Sci. U.S.A., 83:710 (1986)], use of TAB® linkers (Pharmacia), etc. PCR techniques are preferred for site directed mutagenesis [see Higuchi, 1989, "Using PCR to Engineer DNA", in PCR Technology: Principles and Applications for DNA Amplification, H. Erlich, ed., Stockton Press, 30 Chapter 6, pp. 61-70].

The identified and isolated nucleic acids can then be inserted into an appropriate cloning vector. A large number of vector-host systems known in the art may be used.

Protein expression and purification

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A bacterial protein expression system can be used to make various stable isotopically labeled (¹³C, ¹⁵N, and ²H) protein samples that are useful for a three-dimensional NMR structural determination of a protein complex. For example a pET14b (Novagen) bacterial expression vector can be constructed which expresses the recombinant P/CAF bromodomain as an amino-terminal His-tagged fusion protein.

Protein expression and purification can be conducted using standard procedures for His-tagged proteins [Zhou et al., J. Biol. Chem. 270:31119-31123 (1995)]. To optimize the level of protein expression, various bacterial growth and expression conditions can be screened, which include different E. Coli cell lines, and growth and protein induction temperatures. Generally, it is preferred to obtain the maximum amount of soluble protein while still inducing protein expression with a relatively low

IPTG concentration e.g., ~0.2mM (final concentration) at 16°C. As exemplified

below, the bromodomain of P/CAF (residues 719-832 of SEQ ID NO:2 which is SEQ ID NO:7) was subcloned into the pET14b expression vector (Novagen) and expressed in *Escherichia coli* BL21(DE3) cells. Uniformly ¹⁵N- and ¹⁵N/¹³C-labeled proteins were prepared by growing bacteria in a minimal medium containing ¹⁵NH₄Cl with or without ¹³C₆-glucose. A uniformly ¹⁵N/¹³C-labeled and fractionally deuterated protein sample was prepared by growing the cells in 75% ²H₂O. The bromodomain was

purified by affinity chromatography on a nickel-IDA column (Invitrogen) followed by the removal of poly-His tag by thrombin cleavage. The final purification of the protein was achieved by size-exclusion chromatography. The acetyl-lysine-containing peptides were prepared on a MilliGen 9050 peptide synthesizer (Perkin Elmer) using Fmoc/HBTU chemistry. Acetyl-lysine was incorporated using the reagent

Fmoc-Ac-Lys with HBTU/DIPEA activation. NMR samples contained approximately 1 mM protein in 100mM phosphate buffer of pH 6.5 and 5mM perdeuterated DTT and 0.5mM EDTA in H₂O/²H₂O (9/1) or ²H₂O.

One major advantage of using the heteronuclear multidimensional approach, as exemplied herein, is that the NMR resonance assignments of a protein are obtained in a sequence-specific manner which assures accuracy and greatly facilitates data analysis and structure determination [Clore, G. M. & Gronenborn, A. M. Meth. Enzymol.

239:249-363 (1994)]. In addition, the signal overlapping problems in the protein spectra are minimized by the use of multidimensional NMR spectra, which separates the proton signals according to the chemical shifts of their attached hetero-nuclei (such as ¹⁵N and ¹³C). This NMR approach has been proven very powerful for structural analysis of large proteins [Clore, G. M. & Gronenborn, A. M. *Meth. Enzymol.*

239:249-363 (1994)]. To facilitate sequence-specific resonance assignments for the structural study, a uniformly ¹³C, ¹⁵N-labeled and fractionally (75%) deuterated protein sample of the bromodomain can be prepared by growing bacterial cells in 75% ²H₂O as exemplified below. Such protein samples can be used for triple-resonance NMR experiments. A triple-labeled protein sample is useful for high-resolution NMR structural studies. Because of the favorable ¹H, ¹³C, and ¹⁵N relaxation rates caused by the partial deuteration of the protein, constant-time triple-resonance NMR spectra can be acquired with higher digital resolution and sensitivity [Sattler, M. & Fesik, S. W.

Structure 4:1245-1249 (1996)]. In addition, various stable-isotopically labeled (¹⁵N and ¹³C /¹⁵N) proteins can also be prepared using this procedure.

Synthetic Polypeptides

The term "polypeptide" is used in its broadest sense to refer to a compound of two or more subunit amino acids, amino acid analogs, or peptidomimetics. The subunits are linked by peptide bonds. The terms "polypeptide", "protein", and "peptide" are used interchangeably herein, though preferably as used herein a "peptide" refers to a compound of at least two but less than fifty subunit amino acids, and a polypeptide or protein refers to compound of fifty or more amino acids. The polypeptides of the present invention may be chemically synthesized or as detailed above, genetically engineered or isolated from natural sources.

In addition, potential drugs or agents that may be tested in the drug screening assays of the present invention may also be chemically synthesized. When the peptide is to be

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modified, e.g., acetylated, the modification can be at any time during the peptide synthesis, including using an acetyl-lysine as a starting material or acetylating a lysine residue of a peptide after the peptide has been synthesized. In the Example below, the acetyl-lysine-containing peptides were prepared on a MilliGen 9050 peptide synthesizer (Perkin Elmer) using Fmoc/HBTU chemistry. Acetyl-lysine was incorporated using the reagent Fmoc-Ac-Lys with HBTU/DIPEA activation.

Thus, synthetic polypeptides, prepared using the well known techniques of solid phase, liquid phase, or peptide condensation techniques, or any combination thereof, can include natural and unnatural amino acids. Amino acids used for peptide synthesis may be standard Boc (N^{α} -amino protected N^{α} -t-butyloxycarbonyl) amino acid resin with the standard deprotecting, neutralization, coupling and wash protocols of the original solid phase procedure of Merrifield [J. Am. Chem. Soc., 85:2149-2154 (1963)], or the base-labile N^{α} -amino protected 9-fluorenylmethoxycarbonyl (Fmoc) amino acids first described by Carpino and Han [J. Org. Chem., 37:3403-3409 (1972)]. Both Fmoc and Boc N^α-amino protected amino acids can be obtained from Fluka, Bachem, Advanced Chemtech, Sigma, Cambridge Research Biochemical, Bachem, or Peninsula Labs or other chemical companies familiar to those who practice this art. In addition, the method of the invention can be used with other N°-protecting groups that are familiar to those skilled in this art. Solid phase peptide synthesis may be accomplished by techniques familiar to those in the art and provided, for example, in Stewart and Young [Solid Phase Synthesis, Second Edition, Pierce Chemical Co., Rockford, IL (1984)] and Fields and Noble [Int. J. Pept. Protein Res., 35:161-214 (1990)], or using automated synthesizers, such as sold by ABS. Thus, polypeptides of the invention may comprise D-amino acids, a combination of D- and L-amino acids, and various "designer" amino acids (e.g., β-methyl amino acids, Cα-methyl amino acids, and Nα-methyl amino acids, etc.) to convey special properties. Synthetic amino acids include ornithine for lysine, fluorophenylalanine for phenylalanine, and norleucine for leucine or isoleucine. Additionally, by assigning specific amino acids at specific coupling steps, α -helices, β turns, β sheets, γ -turns, and cyclic peptides can be generated.

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In a further embodiment, subunits of peptides that confer useful chemical and structural properties will be chosen. For example, peptides comprising D-amino acids will be resistant to L-amino acid-specific proteases in vivo. In addition, the present invention envisions preparing peptides that have more well defined structural properties, and the use of peptidomimetics, and peptidomimetic bonds, such as ester bonds, to prepare peptides with novel properties. In another embodiment, a peptide may be generated that incorporates a reduced peptide bond, i.e., R₁-CH₂-NH-R₂, where R₁ and R₂ are amino acid residues or sequences. A reduced peptide bond may be introduced as a dipeptide subunit. Such a molecule would be resistant to peptide bond hydrolysis, e.g., protease activity. Such peptides would provide ligands with unique 10 function and activity, such as extended half-lives in vivo due to resistance to metabolic breakdown, or protease activity. Furthermore, it is well known that in certain systems constrained peptides show enhanced functional activity [Hruby, Life Sciences, 31:189-199 (1982); Hruby et al., Biochem J., 268:249-262 (1990)]; the present invention provides a method to produce a constrained peptide that incorporates random 15 sequences at all other positions.

Constrained and cyclic peptides. A constrained, cyclic or rigidized peptide may be prepared synthetically, provided that in at least two positions in the sequence of the peptide an amino acid or amino acid analog is inserted that provides a chemical functional group capable of crosslinking to constrain, cyclise or rigidize the peptide after treatment to form the crosslink. Cyclization will be favored when a turn-inducing amino acid is incorporated. Examples of amino acids capable of crosslinking a peptide are cysteine to form disulfides, aspartic acid to form a lactone or a lactam, and a chelator such as γ-carboxyl-glutamic acid (Gla) (Bachem) to chelate a transition metal and form a cross-link. Protected γ-carboxyl glutamic acid may be prepared by modifying the synthesis described by Zee-Cheng and Olson [Biophys. Biochem. Res. Commun., 94:1128-1132 (1980)]. A peptide in which the peptide sequence comprises at least two amino acids capable of crosslinking may be treated, e.g., by oxidation of cysteine residues to form a disulfide or addition of a metal ion to form a chelate, so as to crosslink the peptide and form a constrained, cyclic or rigidized peptide.

The present invention provides strategies to systematically prepare cross-links. For example, if four cysteine residues are incorporated in the peptide sequence, different protecting groups may be used (Hiskey, in The Peptides: Analysis, Synthesis, Biology, Vol. 3, Gross and Meienhofer, eds., Academic Press: New York, pp. 137-167 (1981);

Ponsanti et al., Tetrahedron, 46:8255-8266 (1990)]. The first pair of cysteines may be deprotected and oxidized, then the second set may be deprotected and oxidized. In this way a defined set of disulfide cross-links may be formed. Alternatively, a pair of cysteines and a pair of chelating amino acid analogs may be incorporated so that the cross-links are of a different chemical nature.

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Non-classical amino acids that induce conformational constraints. The following non-classical amino acids may be incorporated in the peptide in order to introduce particular conformational motifs: 1,2,3,4-tetrahydroisoquinoline-3-carboxylate [Kazmierski *et al.*, *J. Am. Chem. Soc.*, 113:2275-2283 (1991)]; (2S,3S)-methyl-phenylalanine, (2S,3R)-methyl-phenylalanine, (2R,3S)-methyl-phenylalanine and (2R,3R)-methyl-phenylalanine (Kazmierski and Hruby, *Tetrahedron Lett.* (1991)]; 2-aminotetrahydronaphthalene-2-carboxylic acid [Landis, Ph.D. Thesis, University of Arizona (1989)]; hydroxy-1,2,3,4-tetrahydroisoquinoline-3-carboxylate [Miyake *et al.*, *J. Takeda Res. Labs.*, 43:53-76 (1989)]; β-carboline (D and L) [Kazmierski, Ph.D. Thesis, University of Arizona (1988)]; HIC (histidine isoquinoline carboxylic acid) [Zechel *et al.*, *Int. J. Pep. Protein Res.*, 43 (1991)]; and HIC (histidine cyclic urea) (Dharanipragada).

The following amino acid analogs and peptidomimetics may be incorporated into a peptide to induce or favor specific secondary structures: LL-Acp (LL-3-amino-2-propenidone-6-carboxylic acid), a β-turn inducing dipeptide analog [Kemp et al., J. Org. Chem., 50:5834-5838 (1985)]; β-sheet inducing analogs [Kemp et al., Tetrahedron Lett., 29:5081-5082 (1988); β-turn inducing analogs [Kemp et al., Tetrahedron Lett., 29:5057-5060 (1988)]; α-helix inducing analogs (Kemp et al., J. Org. Chem., 54:109:115 (1989)]; and analogs provided by the following references: Nagai and Sato, Tetrahedron Lett., 26:647-650 (1985); DiMaio et al., J. Chem. Soc. Perkin Trans., p. 1687 (1989); also a Gly-Ala turn analog [Kahn et al., Tetrahedron

Lett., 30:2317 (1989)]; amide bond isostere [Jones et al., Tetrahedron Lett., 29:3853-3856 (1988)]; tretrazol [Zabrocki et al., J. Am. Chem. Soc., 110:5875-5880 (1988)]; DTC [Samanen et al., Int. J. Protein Pep. Res., 35:501:509 (1990)]; and analogs taught in Olson et al., J. Am. Chem. Sci., 112:323-333 (1990) and Garvey et al., J. Org. Chem., 56:436 (1990). Conformationally restricted mimetics of beta turns and beta bulges, and peptides containing them, are described in U.S. Patent No. 5,440,013, issued August 8, 1995 to Kahn.

Structure-based Mutation Analysis

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Protein structural analysis using NMR spectroscopy has several unique advantages. In addition to high-resolution three-dimensional structural information, the chemical shift assignments for the protein obtained in the structural study further provides a map of the entire protein at the atomic level, which can be used for structure-based biochemical analysis of protein-protein interactions. For example, the information generated from the NMR structural analysis can also serve to identify specific amino acid residues in the peptide-binding site for complementary mutagenesis studies. Specific focus can be placed on those residues that display long-range NOEs (particularly the side-chain NOEs in the ¹³C-NOESY data) between the bromoomain and a peptide comprising an acetyl-lysine.

To ensure mutant proteins are valid for functional analysis, it can be determined as to whether a mutation results in any significant perturbation of the overall conformation of the bromodomain, particularly the effects of mutation on the acetyl-lysine binding sites. NMR spectroscopy is a powerful method for examining the effects of such a mutation on the conformation of the protein. One can readily obtain information about the global conformation of a mutant protein from the proton (¹H) 1D spectrum, by examining the chemical shift dispersion and peak line-width of NMR signals of amide, aromatic and aliphatic protons. Moreover, 2D ¹H-¹⁵N HSQC spectra reveal details of the effects of a mutation on both local and global conformation of the protein, since every single ¹H/¹⁵N signal (both the chemical shift and line-shape) in the NMR spectrum is a "reporter" for a particular amino acid residue. Thus, to assess how mutations effect protein stability and the overall protein conformation, the ¹⁵N HSQC

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spectra of mutated proteins can be compared to that of the wild-type protein bromodomain.

Chemical-shift perturbations due to ligand binding have proven to be a reliable and sensitive probe for the ligand binding site of the protein. This is because the chemicalshift changes of the backbone amide groups are likely to reflect any changes in protein conformation and/or hydrogen bonding due to the peptide/ligand binding. To examine the effects of a mutation on the ligand binding (in this case the ligand is a peptide comprising an acetyl-lysine), peptide titration experiments can be conducted by following the changes of ¹H/¹⁵N signals of the mutant proteins as a function of the peptide concentration. These experiments indicate whether the acetyl-lysine binding site remains the same or changes in the mutants relative to the wild type protein. The effects of the mutation on the peptide binding affinity can also be examined by NMR spectroscopy. If the mutated proteins result in the reduction of the binding affinity, a change of the exchange phenomenon between the free and the ligand-bound signals should be observed in NMR spectrum. If the reduction in binding affinity causes the peptide binding to change from a slow exchange rate to a fast exchange rate, on the NMR time scale, then the peptide binding affinity can be determined from the NMR titration experiment. From these mutation analyses key amino acid residues that are important for binding a peptide comprising the acetyl-lysine can be identified. Such analysis has been exemplified below.

Protein Structure Determination by NMR Spectroscopy

The NMR results from the present invention are summarized by the atomic structure coordinates of the free form of the P/CAF bromodomain (Table 5) and of the P/CAF bromodomain-acetyl-histamine complex (Table 6). The NMR chemical shift assignments of the P/CAF bromodomain are included in the chemical shift table (Table 1) for the ¹H-¹⁵N HSQC spectrum of P/CAF bromodomain. The unambiguous NOE-derived Inter-proton Distance Restraints are in Table 2, the ambiguous NOE-derived Inter-proton Distance Restraints are in Table 3, and the ¹H bonding restraints are disclosed in Table 4.

Backbone and Side-chain Assignments: Sequence-specific backbone assignment can be achieved by using a suite of deuterium-decoupled triple-resonance 3D NMR experiments which include HNCA, HN(CO)CA, HN(CA)CB, HN(COCA)CB, HNCO, and HN(CA)CO experiments [Yamazaki, et al., J. Am. Chem. Soc. 116:11655-11666 (1994)]. The water flip-back scheme is used in these NMR pulse programs to minimize amide signal attenuation from water exchange. Sequential side-chain assignments are typically accomplished from a series of 3D NMR experiments with alternative approaches to confirm the assignments. These experiments include 3D ¹⁵N TOCSY-HSQC, HCCH-TOCSY, (H)C(CO)NH-TOCSY, and H(C)(CO)NH-TOCSY

[see Clore, G. M. & Gronenborn, A. M. Meth. Enzymol. 239:249-363 (1994); Sattler et al., Prog. in Nuclear Magnetic Resonance Spec. 4:93-158 (1999)].

Stereospecific Methyl Groups: Stereospecific assignments of methyl groups of Valine and Leucine residues can be obtained from an analysis of carbon signal multiplet splitting using a fractionally ¹³C-labeled protein sample, which can be readily prepared using M9 minimal medium containing 10% ¹³C-/90% ¹²C-glucose mixture [see Neri, et al., Biochemistry 28:7510-7516 (1989)].

Dihedral Angle Restraints: Backbone dihedral angle (Φ) constraints can be generated
from the ³J_{HNHα} coupling constants measured in a HNHA-J experiment [see Vuister, G. & Bax, A. J. Am. Chem. Soc. 115:7772-7777 (1993)]. Side-chain dihedral angles (χ1) can be obtained from short mixing time ¹⁵N-edited 3D TOCSY-HSQC [see Clore, et al., J, Biomol. NMR 1:13-22 (1991)] and 3D HNHB experiments [see Matson et al., J. Biomol. NMR 3:239-244 (1993)], which can also provide stereospecific assignments of β methylene protons.

Hydrogen Bonds Restraints: Amide protons that are involved in hydrogen bonds can be identified from an analysis of amide exchange rates measured from a series of 2D $^{1}\text{H}/^{15}\text{N}$ HSQC spectra recorded after adding $^{2}\text{H}_{2}\text{O}$ to the protein sample.

NOE Distance Restraints: Distance restraints are obtained from analysis of ¹⁵N, and ¹³C-edited 3D NOESY data, which can be collected with different mixing times to minimize spin diffusion problems. The nuclear Overhauser effect (NOE)-derived

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restraints are categorized as strong (1.8-3 Å), medium (1.8-4 Å) or weak (1.8-5 Å) based on the observed NOE intensities. A recently developed procedure for the iterative automated NOE analysis by using ARIA [see Nilges et al., Prog. NMR Spectroscopy 32:107-139 (1998)] can be employed which integrates with X-PLOR for structural calculations. To ensure the success of ARIA/X-PLOR-assisted NOE analysis and structure calculations, the ARIA assigned NOE peaks can be manually confirmed.

Intermolecular NOE Distance Restrains: For the structural determination of a protein/peptide complex, intermolecular NOE distance restraints can be obtained from a 13 C-edited (F_1) and 15 N, and 13 C-filtered (F_3) 3D NOESY data set collected for a sample containing isotope-labeled protein and non-labeled peptide.

using a distance geometry/simulated annealing protocol with the X-PLOR program [see Nilges,et al., FEBS Lett. 229:317-324 (1988); Kuszewski, et al., J. Biolmol. NMR 2:33-56 (1992); Brünger, A. T. X-PLOR Version 3.1: A system for X-Ray crystallography and NMR (Yale University Press, New Haven, CT, 1993)]. The structure calculations can employ inter-proton distance restraints obtained from ¹⁵N-and ¹³C-resolved NOESY spectra. The initial low-resolution structures can be used to facilitate NOE assignments, and help identify hydrogen bonding partners for slowly exchanging amide protons. The experimental restraints of dihedral angles and hydrogen bonds can be included in the distance restraints for structure refinements.

Protein-Structure Based Design of Agonists and Antagonists of the Bromodomain-Acetyl-Lysine Binding Complex

Once the three-dimensional structure of the Bromodomain and the Bromodomain-acetyl-lysine binding complex are determined, a potential drug or agent (antagonist or agonist) can be examined through the use of computer modeling using a docking program such as GRAM, DOCK, or AUTODOCK [Dunbrack *et al.*, 1997, *supra*]. This procedure can include computer fitting of potential agents to the bromodomain, for example, to ascertain how well the shape and the chemical structure of the potential ligand will complement or interfere with the interaction between the bromodomain and

the acetyl-lysine [Bugg et al., Scientific American, Dec.:92-98 (1993); West et al., TIPS, 16:67-74 (1995)]. Computer programs can also be employed to estimate the attraction, repulsion, and steric hindrance of the agent to the dimer-dimer binding site, for example. Generally the tighter the fit (e.g., the lower the steric hindrance, and/or the greater the attractive force) the more potent the potential drug will be since these properties are consistent with a tighter binding constant. Furthermore, the more specificity in the design of a potential drug the more likely that the drug will not interfere with related proteins. This will minimize potential side-effects due to unwanted interactions with other proteins.

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Initially a potential drug could be obtained by screening a random peptide library produced by recombinant bacteriophage for example, [Scott and Smith, Science, 249:386-390 (1990); Cwirla et al., Proc. Natl. Acad. Sci., 87:6378-6382 (1990); Devlin et al., Science, 249:404-406 (1990)] or a chemical library. An agent selected in this manner could be then be systematically modified by computer modeling programs until one or more promising potential drugs are identified. Such analysis has been shown to be effective in the development of HIV protease inhibitors [Lam et al., Science 263:380-384 (1994); Wlodawer et al., Ann. Rev. Biochem. 62:543-585 (1993); Appelt, Perspectives in Drug Discovery and Design 1:23-48 (1993)].

Such computer modeling allows the selection of a finite number of rational chemical modifications, as opposed to the countless number of essentially random chemical modifications that could be made, any one of which might lead to a useful drug. Each chemical modification requires additional chemical steps, which while being reasonable for the synthesis of a finite number of compounds, quickly becomes overwhelming if all possible modifications needed to be synthesized. Thus, through the use of the three-dimensional structural analysis disclosed herein and computer modeling, a large number of these compounds can be rapidly screened on the computer monitor screen, and a few likely candidates can be determined without the laborious synthesis of untold numbers of compounds.

Once a potential drug (agonist or antagonist) is identified it can be either selected from a library of chemicals as are commercially available from most large chemical companies including Merck, GlaxoWelcome, Bristol Meyers Squib, Monsanto/Searle, Eli Lilly, Novartis and Pharmacia UpJohn, or alternatively the potential drug may be synthesized *de novo*. As mentioned above, the *de novo* synthesis of one or even a relatively small group of specific compounds is reasonable in the art of drug design.

The potential drug can then be tested in any standard binding assay (including in high throughput binding assays) for its ability to bind to the ZA loop of a bromodomain.

Alternatively the potential drug can be tested for its ability to modulate the binding of a bromodomain to acetylated histamine, for example. When a suitable potential drug is identified, a second NMR structural analysis can optionally be performed on the binding complex formed between the bromodomain-acetyl-lysine binding complex, or the bromodomain alone and the potential drug. Computer programs that can be used to aid in solving such three-dimensional structures include QUANTA, CHARMM, INSIGHT, SYBYL, MACROMODE, and ICM, MOLMOL, RASMOL, AND GRASP [Kraulis, *J. Appl Crystallogr.* 24:946-950 (1991)]. Most if not all of these programs and others as well can be also obtained from the WorldWideWeb through the internet.

Using the approach described herein and equipped with the structural analysis disclosed herein, the three-dimensional structures of other bromodomain-acetyl-lysine binding complexes can more readily be obtained and analyzed. Such analysis will, in turn, allow corresponding drug screening methodology to be performed using the three-dimensional structures of such related complexes.

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For all of the drug screening assays described herein further refinements to the structure of the drug will generally be necessary and can be made by the successive iterations of any and/or all of the steps provided by the particular drug screening assay, including further structural analysis by NMR, for example.

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Phage libraries for Drug Screening.

Phage libraries have been constructed which when infected into host *E. coli* produce random peptide sequences of approximately 10 to 15 amino acids [Parmley and Smith,

Gene 73:305-318 (1988), Scott and Smith, Science 249:386-249 (1990)]. Specifically, the phage library can be mixed in low dilutions with permissive E. coli in low melting point LB agar which is then poured on top of LB agar plates. After incubating the plates at 37°C for a period of time, small clear plaques in a lawn of E. coli will form which represents active phage growth and lysis of the E. coli. A representative of these phages can be absorbed to nylon filters by placing dry filters onto the agar plates. The filters can be marked for orientation, removed, and placed in washing solutions to block any remaining absorbent sites. The filters can then be placed in a solution containing, for example, a radioactive bromodomain. After a specified incubation period, the filters can be thoroughly washed and developed for autoradiography. Plaques containing the phage that bind to the radioactive bromodomain can then be identified. These phages can be further cloned and then retested for their ability to bind to the bromodomain as before. Once the phage has been purified, the binding sequence contained within the phage can be determined by standard DNA sequencing techniques. Once the DNA sequence is known, synthetic peptides can be generated 15 which are encoded by these sequences. These peptides can be tested, for example, for their ability to modulate the affinity of the bromodomain for its binding partner (e.g., a protein comprising an acetyl-lysine or a fragment of that protein).

The effective peptide(s) can be synthesized in large quantities for use in in vivo models 20 and eventually in humans to treat certain tumors. It should be emphasized that synthetic peptide production is relatively non-labor intensive, easily manufactured, quality controlled and thus, large quantities of the desired product can be produced quite cheaply. Similar combinations of mass produced synthetic peptides have been used with great success [Patarroyo, Vaccine, 10:175-178 (1990)]. 25

Drug Screening Assays

The drug screening assays of the present invention may use any of a number of means for determining the interaction between an agent or drug and a peptide comprising an acetyl-lysine and/or a bromodomain. Thus, standard high throughput drug screening procedures can be employed using a library of low molecular weight compounds, for

example that can be screened to identify a binding partner for the bromodoamin. Any such chemical library can be used including those discussed above.

In a particular assay, a bromodomain is placed on or coated onto a solid support.

Methods for placing the peptides or proteins on the solid support are well known in the art and include such things as linking biotin to the protein and linking avidin to the solid support. An agent is allowed to equilibrate with the bromodomain to test for binding. Generally, the solid support is washed and agents that are retained are selected as potential drugs. Alternatively, a peptide comprising an acetyl-lysine is placed on or coated onto a solid support. In a particular embodiment of this type, the peptide comprises the amino acid sequence of SEQ ID NO:4.

The agent may be labeled. For example, in one embodiment radiolabeled agents are used to measure the binding of the agent. In another embodiment the agents have fluorescent markers. In yet another embodiment, a Biocore chip (Pharmacia) coated with the bromodomain is used, for example and the change in surface conductivity can be measured.

In addition, since a number of proteins have been identified that contain

20 bromodomains, and the binding partners of many of these proteins are known, the fact that the bromodomain specifically binds to an acetylated lysine as disclosed herein allows the identification and preparation of a number of potential modulators of the bromodomain-acetyl-lysine binding complex based on the amino acid sequences of the binding partners to the proteins. Such potential modulators include: ISYGR-AcK-

KRRQRR (SEQ ID NO:4), ARKSTGG-AcK-APRKQL (SEQ ID NO:5) and QSTSRHK-AcK-LMFKTE (SEQ ID NO:6) which bind to the P/CAF bromodomain as shown in the Example, below. Such peptides also can be used, for example, as a starting point for the design of an inhibitor of the bromodomain-acetyl-lysine binding complex.

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Alternatively, a drug can be specifically designed to bind to the ZA loop of a bromodomain for example, such as the P/CAF bromodomain, and be assayed through NMR based methodology [Shuker *et al.*, *Science* **274**:1531-1534 (1996) hereby

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incorporated by reference in its entirety.] In a particular embodiment, analogs of the binding partner of the bromodomain can be used in this analysis. One such peptide has the amino acid sequence of SEQ ID NO:4. In another embodiment of this type, the peptide has the amino acid sequence of SEQ ID NO:5. In another such embodiment of this type, the peptide has the amino acid sequence of SEQ ID NO:6.

The assay begins with contacting a compound with a ¹⁵N-labeled bromodomain. Binding of the compound with the ZA loop of the bromodomain can be determined by monitoring the ¹⁵N- or ¹H-amide chemical shift changes in two dimensional ¹⁵Nheteronuclear single-quantum correlation (15N-HSQC) spectra upon the addition of the compound to the ¹⁵N-labeled bromodomain. Since these spectra can be rapidly obtained, it is feasible to screen a large number of compounds [Shuker et al., Science 274:1531-1534 (1996)]. A compound is identified as a potential ligand if it binds to the ZA loop of the bromodomain. In a further embodiment, the potential ligand can then be used as a model structure, and analogs to the compound can be obtained (e.g, from the vast chemical libraries commercially available, or alternatively through denovo synthesis). The analogs are then screened for their ability to bind the ZA loop of the bromodomain thus to obtain a ligand. An analog of the potential ligand is chosen as a ligand when it binds to the ZA loop of the bromodomain with a higher binding affinity than the potential ligand. In a preferred embodiment of this type the analogs are screened by monitoring the 15N- or 1H-amide chemical shift changes in two dimensional ¹⁵N-heteronuclear single-quantum correlation (¹⁵N-HSQC) spectra upon the addition of the analog to the ¹⁵N-labeled bromodomain as described above.

In another further embodiment, compounds are screened for binding to two nearby sites on the bromodomain. In this case, a compound that binds a first site of the bromodomain does not bind a second nearby site. Binding to the second site can be determined by monitoring changes in a different set of amide chemical shifts in either the original screen or a second screen conducted in the presence of a ligand (or potential ligand) for the first site. From an analysis of the chemical shift changes the approximate location of a potential ligand for the second site is identified. Optimization of the second ligand for binding to the site is then carried out by screening structurally related compounds (e.g., analogs as described above). When

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ligands for the first site and the second site are identified, their location and orientation in the ternary complex can be determined experimentally either by NMR spectroscopy or X-ray crystallography. On the basis of this structural information, a linked compound is synthesized in which the ligand for the first site and the ligand for the second site are linked. In a preferred embodiment of this type the two ligands are covalently linked. This linked compound is tested to determine if it has a higher binding affinity for the bromodomain than either of the two individual ligands. A linked compound is selected as a ligand when it has a higher binding affinity for the bromodomain than either of the two ligands. In a preferred embodiment the affinity of the linked compound with the bromodomain is determined monitoring the ¹⁵N- or ¹H- amide chemical shift changes in two dimensional ¹⁵N-heteronuclear single-quantum correlation (¹⁵N-HSQC) spectra upon the addition of the linked compound to the ¹⁵N- labeled bromodomain as described above.

15 A larger linked compound can be constructed in an analogous manner, *e.g.*, linking three ligands which bind to three nearby sites on the bromodomain to form a multilinked compound that has an even higher affinity for the bromodomain than the linked compound.

Identification of New Bromodomains

By disclosing that protein bound acetyl-lysine is a binding partner for bromodomains, the present invention provides a method of identifying novel proteins that contain bromodomains. In short, a protein fragment or analog thereof comprising an acetyllysine can be used as bait to identify a binding partner that comprises a bromodomain. Any one of a number of procedures can be carried out to identify such a binding partner. One such assay comprises passing a cell extract over the bait peptide which is attached to a solid support. After washing the solid support to remove any non-specific binders, the bromodomain containing protein can be eluted from the solid support with an appropriate eluant. In a particular embodiment, the free bait peptide can be used in the elution. Other methodology includes the use of a yeast two-hybrid system, a GST pull down assay, ELISA, immunometric assays, and a modification of the CORT procedure of Schlessinger *et al.*, (US Patent No. 5,858,686, Issued on

January 12, 1999 which is hereby incorporated by reference in its entirety) for use with the bromodomain-acetyl-lysine binding complex.

Labels:

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Suitable labels include enzymes, fluorophores (*e.g.*, fluorescein isothiocyanate (FITC), phycoerythrin (PE), Texas red (TR), rhodamine, free or chelated lanthanide series salts, especially Eu³⁺, to name a few fluorophores), chromophores, radioisotopes, chelating agents, dyes, colloidal gold, latex particles, ligands (*e.g.*, biotin), and chemiluminescent agents. When a control marker is employed, the same or different labels may be used for the test and control marker gene.

In the instance where a radioactive label, such as the isotopes ³H, ¹⁴C, ³²P, ³⁵S, ³⁶Cl, ⁵¹Cr, ⁵⁷Co, ⁵⁸Co, ⁵⁹Fe, ⁹⁰Y, ¹²⁵I, ¹³¹I, and ¹⁸⁶Re are used, known currently available counting procedures may be utilized. In the instance where the label is an enzyme, detection may be accomplished by any of the presently utilized colorimetric, spectrophotometric, fluorospectrophotometric, amperometric or gasometric techniques known in the art.

Direct labels are one example of labels which can be used according to the present invention. A direct label has been defined as an entity, which in its natural state, is readily visible, either to the naked eye, or with the aid of an optical filter and/or applied stimulation, e.g. U.V. light to promote fluorescence. Among examples of colored labels, which can be used according to the present invention, include metallic sol
particles, for example, gold sol particles such as those described by Leuvering (U.S. Patent 4,313,734); dye sole particles such as described by Gribnau *et al.* (U.S. Patent 4,373,932 and May *et al.* (WO 88/08534); dyed latex such as described by May, *supra*, Snyder (EP-A 0 280 559 and 0 281 327); or dyes encapsulated in liposomes as described by Campbell et al. (U.S. Patent 4,703,017). Other direct labels include a
radionucleotide, a fluorescent moiety or a luminescent moiety. In addition to these direct labeling devices, indirect labels comprising enzymes can also be used according to the present invention. Various types of enzyme linked immunoassays are well known in the art, for example, alkaline phosphatase and horseradish peroxidase,

lysozyme, glucose-6-phosphate dehydrogenase, lactate dehydrogenase, urease, these and others have been discussed in detail by Eva Engvall in Enzyme Immunoassay ELISA and EMIT in *Methods in Enzymology*, **70:**419-439 (1980) and in U.S. Patent 4,857,453.

Suitable enzymes include, but are not limited to, alkaline phosphatase, β -galactosidase, green fluorescent protein and its derivatives, luciferase, and horseradish peroxidase.

Other labels for use in the invention include magnetic beads or magnetic resonance imaging labels.

Antibodies to Portions of the Bromodomain that Interact with Acetyl-Lysine

According to the present invention, the bromodomains, and more particularly the ZA loops of the bromodomains and fragments thereof can be produced by a recombinant source, or through chemical synthesis, or through the modification of these peptides and fragments; and derivatives or analogs thereof, including fusion proteins, may be used as an immunogen to generate antibodies that specifically interfere with the formation of the bromodomain-acetyl-lysine binding complex. Similarly, antibodies can be raised against peptides that comprise one or more acetyl-lysine residues which also interfere with the formation of the bromodomain-acetyl-lysine binding complex. Such antibodies include but are not limited to polyclonal, monoclonal, chimeric, single chain, Fab fragments, and a Fab expression library.

Various procedures known in the art may be used for the production of the polyclonal antibodies. For the production of antibody, various host animals can be immunized by injection with the peptide having the amino acid sequence of SEQ ID NO:3, for example, or a derivative (e.g., or fusion protein) thereof, including but not limited to rabbits, mice, rats, sheep, goats, etc. In one embodiment, the peptide can be conjugated to an immunogenic carrier, e.g., bovine serum albumin (BSA) or keyhole limpet hemocyanin (KLH). Various adjuvants may be used to increase the immunological response, depending on the host species, including but not limited to Freund's (complete and incomplete), mineral gels such as aluminum hydroxide, surface

active substances such as lysolecithin, pluronic polyols, polyanions, peptides, oil emulsions, keyhole limpet hemocyanins, dinitrophenol, and potentially useful human adjuvants such as BCG (bacille Calmette-Guerin) and Corynebacterium parvum.

For preparation of monoclonal antibodies directed toward the peptides or protein fragments of the present invention, or analog, or derivative thereof, any technique that provides for the production of antibody molecules by continuous cell lines in culture may be used. These include but are not limited to the hybridoma technique originally developed by Kohler and Milstein [Nature, 256:495-497 (1975)], as well as the trioma technique, the human B-cell hybridoma technique [Kozbor et al., Immunology Today, 4:72 (1983); Cote et al., Proc. Natl. Acad. Sci. U.S.A., 80:2026-2030 (1983)], and the EBV-hybridoma technique to produce human monoclonal antibodies [Cole et al., in Monoclonal Antibodies and Cancer Therapy, Alan R. Liss, Inc., pp. 77-96 (1985)]. In an additional embodiment of the invention, monoclonal antibodies can be produced in germ-free animals utilizing technology described in PCT/US90/02545. In fact, 15 according to the invention, techniques developed for the production of "chimeric antibodies" [Morrison et al., J. Bacteriol., 159:870 (1984); Neuberger et al., Nature, 312:604-608 (1984); Takeda et al., Nature, 314:452-454 (1985)] by splicing the genes from a mouse antibody molecule specific for the peptide having the amino acid sequence of SEQ ID NO:3, for example, together with genes from a human antibody molecule of appropriate biological activity can be used; such antibodies are within the scope of this invention. Such human or humanized chimeric antibodies are preferred for use in therapy of human diseases or disorders (described infra), since the human or humanized antibodies are much less likely than xenogenic antibodies to induce an immune response, in particular an allergic response, themselves.

According to the invention, techniques described for the production of single chain antibodies [U.S. Patent Nos. 5,476,786 and 5,132,405 to Huston; U.S. Patent 4,946,778] can be adapted to produce specific single chain antibodies. An additional embodiment of the invention utilizes the techniques described for the construction of Fab expression libraries [Huse *et al.*, *Science*, **246**:1275-1281 (1989)] to allow rapid and easy identification of monoclonal Fab fragments with the desired specificity.

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Antibody fragments which contain the idiotype of the antibody molecule can be generated by known techniques. For example, such fragments include but are not limited to: the $F(ab')_2$ fragment which can be produced by pepsin digestion of the antibody molecule; the Fab' fragments which can be generated by reducing the disulfide bridges of the $F(ab')_2$ fragment, and the Fab fragments which can be generated by treating the antibody molecule with papain and a reducing agent.

In the production of antibodies, screening for the desired antibody can be accomplished by techniques known in the art, e.g., radioimmunoassay, ELISA (enzyme-linked immunosorbant assay), "sandwich" immunoassays, immunoradiometric assays, gel diffusion precipitin reactions, immunodiffusion assays, in situ immunoassays (using colloidal gold, enzyme or radioisotope labels, for example), western blots, precipitation reactions, agglutination assays (e.g., gel agglutination assays, hemagglutination assays), complement fixation assays, immunofluorescence assays, protein A assays, and immunoelectrophoresis assays, etc. In one embodiment, antibody binding is detected by detecting a label on the primary antibody. In another embodiment, the primary antibody is detected by detecting binding of a secondary antibody or reagent to the primary antibody. In a further embodiment, the secondary antibody is labeled. Many means are known in the art for detecting binding in an immunoassay and are within the scope of the present invention. For example, to select antibodies which recognize a specific epitope of a ZA loop of a bromodomain, for example, one may assay generated hybridomas for a product which binds to a bromodomain fragment containing such an epitope and choose those which do not cross-react with bromodomain fragments that do not include that epitope.

In a specific embodiment, antibodies that interfere with the formation of the bromodomain-acetyl-lysine complex can be generated. Such antibodies can be tested using the assays described and could potentially be used in anti-cancer therapies.

Administration

According to the invention, the component or components of a therapeutic composition, e.g., an agent of the invention that interferes with the bromodomain-

acetyl-lysine binding complex such as the peptide having the amino acid sequence of SEQ ID NOs:4, 5, or 6 and a pharmaceutically acceptable carrier, may be introduced parenterally, transmucosally, *e.g.*, orally, nasally, or rectally, or transdermally. Preferably, administration is parenteral, *e.g.*, via intravenous injection, and also including, but is not limited to, intra-arteriole, intramuscular, intradermal, subcutaneous, intraperitoneal, intraventricular, and intracranial administration.

In a preferred aspect, the agent of the present invention can cross cellular and nuclear membranes, which would allow for intravenous or oral administration. Strategies are available for such crossing, including but not limited to, increasing the hydrophobic nature of a molecule; introducing the molecule as a conjugate to a carrier, such as a ligand to a specific receptor, targeted to a receptor; and the like.

The present invention also provides for conjugating targeting molecules to such an agent. "Targeting molecule" as used herein shall mean a molecule which, when administered *in vivo*, localizes to desired location(s). In various embodiments, the targeting molecule can be a peptide or protein, antibody, lectin, carbohydrate, or steroid. In one embodiment, the targeting molecule is a peptide ligand of a receptor on the target cell. In a specific embodiment, the targeting molecule is an antibody.

Preferably, the targeting molecule is a monoclonal antibody. In one embodiment, to facilitate crosslinking the antibody can be reduced to two heavy and light chain heterodimers, or the $F(ab')_2$ fragment can be reduced, and crosslinked to the agent via the reduced sulfhydryl. Antibodies for use as targeting molecule are specific for a cell surface antigen.

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In another embodiment, the therapeutic compound can be delivered in a vesicle, in particular a liposome [see Langer, Science, 249:1527-1533 (1990); Treat et al., in Liposomes in the Therapy of Infectious Disease and Cancer, Lopez-Berestein and Fidler (eds.), Liss: New York, pp. 353-365 (1989); Lopez-Berestein, ibid., pp. 317-327; see generally ibid.].

In yet another embodiment, the therapeutic compound can be delivered in a controlled release system. For example, the agent may be administered using intravenous infusion, an implantable osmotic pump, a transdermal patch, liposomes, or other modes of administration. In one embodiment, a pump may be used [see Langer, supra; Sefton, CRC Crit. Ref. Biomed. Eng., 14:201 (1987); Buchwald et al., Surgery, 88:507 (1980); Saudek et al., N. Engl. J. Med., 321:574 (1989)]. In another embodiment, polymeric materials can be used [see Medical Applications of Controlled Release, Langer and Wise (eds.), CRC Press: Boca Raton, Florida (1974); Controlled Drug Bioavailability, Drug Product Design and Performance, Smolen and Ball (eds.), Wiley: New York (1984); Ranger and Peppas, J. Macromol. Sci. Rev. Macromol. Chem., 23:61 (1983); see also Levy et al., Science, 228:190 (1985); During et al., Ann. Neurol., 25:351 (1989); Howard et al., J. Neurosurg., 71:105 (1989)]. In yet another embodiment, a controlled release system can be placed in proximity of the therapeutic target, i.e., the bone marrow, thus requiring only a fraction of the systemic dose [see, e.g., Goodson, in Medical Applications of Controlled Release, supra, vol. 2, pp. 115-138 (1984)]. Other controlled release systems are discussed in the review by Langer

[Science, 249:1527-1533 (1990)].

Pharmaceutical Compositions. In yet another aspect of the present invention, provided are pharmaceutical compositions of the above. Such pharmaceutical compositions may be for administration for injection, or for oral, pulmonary, nasal or other forms of administration. In general, comprehended by the invention are pharmaceutical compositions comprising effective amounts of a low molecular weight component or components, or derivative products, of the invention together with pharmaceutically acceptable diluents, preservatives, solubilizers, emulsifiers, adjuvants and/or carriers. Such compositions include diluents of various buffer content (e.g., Tris-HCl, acetate, phosphate), pH and ionic strength; additives such as detergents and solubilizing agents (e.g., Tween 80, Polysorbate 80), anti-oxidants (e.g., ascorbic acid, sodium metabisulfite), preservatives (e.g., Thimersol, benzyl alcohol) and bulking substances (e.g., lactose, mannitol); incorporation of the material into particulate preparations of polymeric compounds such as polylactic acid, polyglycolic acid, etc. or into liposomes. Hylauronic acid may also be used. Such compositions may influence the physical state, stability, rate of in vivo release, and rate of in vivo clearance of the present proteins and derivatives. See, e.g., Remington's Pharmaceutical Sciences, 18th Ed. [1990, Mack Publishing Co., Easton, PA 18042] pages 1435-1712 which are herein

incorporated by reference. The compositions may be prepared in liquid form, or may be in dried powder, such as lyophilized form.

Oral Delivery. Contemplated for use herein are oral solid dosage forms, which are described generally in Remington's Pharmaceutical Sciences, 18th Ed.1990 (Mack Publishing Co. Easton PA 18042) at Chapter 89, which is herein incorporated by reference. Solid dosage forms include tablets, capsules, pills, troches or lozenges, cachets or pellets. Also, liposomal or proteinoid encapsulation may be used to formulate the present compositions (as, for example, proteinoid microspheres reported in U.S. Patent No. 4,925,673). Liposomal encapsulation may be used and the liposomes may be derivatized with various polymers (e.g., U.S. Patent No. 5,013,556). A description of possible solid dosage forms for the therapeutic is given by Marshall, K. In: *Modern Pharmaceutics* Edited by G.S. Banker and C.T. Rhodes Chapter 10, 1979, herein incorporated by reference. In general, the formulation will include an agent of the present invention (or chemically modified forms thereof) and inert ingredients which allow for protection against the stomach environment, and release of the biologically active material in the intestine.

Also specifically contemplated are oral dosage forms of the above derivatized component or components. The component or components may be chemically modified so that oral delivery of the derivative is efficacious. Generally, the chemical modification contemplated is the attachment of at least one moiety to the component molecule itself, where said moiety permits (a) inhibition of proteolysis; and (b) uptake into the blood stream from the stomach or intestine. Also desired is the increase in overall stability of the component or components and increase in circulation time in the body. An example of such a moiety is polyethylene glycol.

For the component (or derivative) the location of release may be the stomach, the small intestine (the duodenum, the jejunum, or the ileum), or the large intestine. One skilled in the art has available formulations which will not dissolve in the stomach, yet will release the material in the duodenum or elsewhere in the intestine. Preferably, the release will avoid the deleterious effects of the stomach environment, either by

protection of the protein (or derivative) or by release of the biologically active material beyond the stomach environment, such as in the intestine.

The therapeutic can be included in the formulation as fine multi-particulates in the form of granules or pellets of particle size about 1 mm. The formulation of the material for capsule administration could also be as a powder, lightly compressed plugs or even as tablets. The therapeutic could be prepared by compression.

One may dilute or increase the volume of the therapeutic with an inert material. These diluents could include carbohydrates, especially mannitol, a-lactose, anhydrous lactose, cellulose, sucrose, modified dextrans and starch. Certain inorganic salts may be also be used as fillers including calcium triphosphate, magnesium carbonate and sodium chloride. Some commercially available diluents are Fast-Flo, Emdex, STA-Rx 1500, Emcompress and Avicell.

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Disintegrants may be included in the formulation of the therapeutic into a solid dosage form. Materials used as disintegrates include but are not limited to starch, including the commercial disintegrant based on starch, Explotab. Binders also may be used to hold the therapeutic agent together to form a hard tablet and include materials from natural products such as acacia, tragacanth, starch and gelatin.

An anti-frictional agent may be included in the formulation of the therapeutic to prevent sticking during the formulation process. Lubricants may be used as a layer between the therapeutic and the die wall. Glidants that might improve the flow properties of the drug during formulation and to aid rearrangement during compression also might be added. The glidants may include starch, talc, pyrogenic silica and hydrated silicoaluminate.

In addition, to aid dissolution of the therapeutic into the aqueous environment a surfactant might be added as a wetting agent. Additives which potentially enhance uptake of the protein (or derivative) are for instance the fatty acids oleic acid, linoleic acid and linolenic acid.

بن د Nasal Delivery. Nasal delivery of an agent of the present invention (or derivative) is also contemplated. Nasal delivery allows the passage of a peptide, for example, to the blood stream directly after administering the therapeutic product to the nose, without the necessity for deposition of the product in the lung. Formulations for nasal delivery include those with dextran or cyclodextran.

Transdermal administration. Various and numerous methods are known in the art for transdermal administration of a drug, e.g., via a transdermal patch. Transdermal patches are described in for example, U.S. Patent No. 5,407,713, issued April 18, 1995 to Rolando et al.; U.S. Patent No. 5,352,456, issued October 4, 1004 to Fallon et al.; U.S. Patent No. 5,332,213 issued August 9, 1994 to D'Angelo et al.; U.S. Patent No. 5,336,168, issued August 9, 1994 to Sibalis; U.S. Patent No. 5,290,561, issued March 1, 1994 to Farhadieh et al.; U.S. Patent No. 5,254,346, issued October 19, 1993 to Tucker et al.; U.S. Patent No. 5,164,189, issued November 17, 1992 to Berger et al.; U.S. Patent No. 5,163,899, issued November 17, 1992 to Sibalis; U.S. Patent No. 5,088,977 and 5,087,240, both issued February 18, 1992 to Sibalis; U.S. Patent No. 5,008,110, issued April 16, 1991 to Benecke et al.; and U.S. Patent No. 4,921,475, issued May 1, 1990 to Sibalis, the disclosure of each of which is incorporated herein by reference in its entirety.

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It can be readily appreciated that a transdermal route of administration may be enhanced by use of a dermal penetration enhancer, *e.g.*, such as enhancers described in U.S. Patent No. 5,164,189 (*supra*), U.S. Patent No. 5,008,110 (*supra*), and U.S. Patent No. 4,879,119, issued November 7, 1989 to Aruga *et al.*, the disclosure of each of which is incorporated herein by reference in its entirety.

Pulmonary Delivery. Also contemplated herein is pulmonary delivery of the pharmaceutical compositions of the present invention. A pharmaceutical composition of the present invention is delivered to the lungs of a mammal while inhaling and traverses across the lung epithelial lining to the blood stream. Other reports of this include Adjei et al. [Pharmaceutical Research, 7:565-569 (1990); Adjei et al., International Journal of Pharmaceutics, 63:135-144 (1990) (leuprolide acetate); Braquet et al., Journal of Cardiovascular Pharmacology, 13(suppl. 5):143-146 (1989)

(endothelin-1); Hubbard et al., Annals of Internal Medicine, Vol. III, pp. 206-212 (1989) (α1-antitrypsin); Smith et al., J. Clin. Invest., 84:1145-1146 (1989) (α-1-proteinase); Oswein et al., "Aerosolization of Proteins", Proceedings of Symposium on Respiratory Drug Delivery II, Keystone, Colorado, March, (1990) (recombinant human growth hormone); Debs et al., J. Immunol., 140:3482-3488 (1988) (interferon-γ and tumor necrosis factor alpha); Platz et al., U.S. Patent No. 5,284,656 (granulocyte colony stimulating factor)]. A method and composition for pulmonary delivery of drugs for systemic effect is described in U.S. Patent No. 5,451,569, issued September 19, 1995 to Wong et al.

A subject in whom administration of an agent of the present invention is an effective therapeutic regiment for cancer, for example, is preferably a human, but can be any animal. Thus, as can be readily appreciated by one of ordinary skill in the art, the methods and pharmaceutical compositions of the present invention are particularly suited to administration to any animal, *e.g.*, for veterinary medical use, particularly for a mammal, and including, but by no means limited to, domestic animals, such as feline or canine subjects, farm animals, including bovine, equine, caprine, ovine, and porcine subjects, wild animals (whether in the wild or in a zoological garden), research animals, such as mice, rats, rabbits, goats, sheep, pigs, dogs, cats, avian species, such as chickens, turkeys, and songbirds.

The present invention may be better understood by reference to the following non-limiting Example, which is provided as exemplary of the invention. The following example is presented in order to more fully illustrate the preferred embodiments of the invention. It should in no way be construed, however, as limiting the broad scope of the invention.

EXAMPLE

STRUCTURE AND LIGAND OF A HISTONE ACETYLTRANSFERASE BROMODOMAIN

5 <u>Introduction</u>

The bromodomain is a protein motif comprising approximately 110 amino acids that is found in practically all nuclear histone acetyltransferases (HATs) [Jeanmougin *et al.*, Trends in Biochemical *Sciences*, **22:**151-153 (1997)]. However, despite the seemingly requisite occurrence of this motif in HATs, their role in these enzymes is unknown.

Indeed, although this motif has also been identified in other chromatin proteins, heretofore not even one binding partner for a bromodomain had been identified.

Materials and Methods

Sample preparation: The bromodomain of P/CAF (residues 719-832 of SEQ ID NO:2) was subcloned into the pET14b expression vector (Novagen) and expressed in *Escherichia coli* BL21(DE3) cells. Uniformly ¹⁵N- and ¹⁵N/¹³C-labelled proteins were prepared by growing bacteria in a minimal medium containing ¹⁵NH₄Cl with or without ¹³C₆-glucose. A uniformly ¹⁵N/¹³C-labelled and fractionally deuterated protein sample was prepared by growing the cells in 75% ²H₂O. The bromodomain was purified by affinity chromatography on a nickel-IDA column (Invitrogen) followed by the removal of poly-His tag by thrombin cleavage. The final purification of the protein was achieved by size-exclusion chromatography. The acetyl-lysine-containing peptides were prepared on a MilliGen 9050 peptide synthesizer (Perkin Elmer) using Fmoc/HBTU chemistry. Acetyl-lysine was incorporated using the reagent Fmoc-Ac-Lys with HBTU/DIPEA activation. NMR samples contained approximately 1 mM protein in 100mM phosphate buffer of pH 6.5 and 5mM perdeuterated DTT and 0.5mM EDTA in H₂O/²H₂O (9/1) or ²H₂O.

NMR spectroscopy: All NMR spectra were acquired at 30°C on a Bruker DRX600 or DRX500 spectrometer. The backbone assignments of the ¹H, ¹³C, and ¹⁵N resonances were achieved using deuterium-decoupled triple-resonance experiments of HNCACB and HN(CO)CACB [Yamazaki et al., J. Am. Chem. Soc. 116:11655-11666 (1994)] recorded using the uniformly ¹⁵N/¹³C-labeled and fractionally deuterated protein. The

side-chain atoms were assigned from 3D HCCH-TOCSY [Clore and Gronenborn, Meth. Enzymol. 239:249-363 (1994)] and (H)C(CO)NH-TOCSY [Logan et al., J. Biolmol. NMR 3:225-231 (1993)] data collected on the uniformly ¹⁵N/¹³C-labeled protein. Stereospecific assignments of methyl groups of the Val and Leu residues were obtained using a fractionally ¹³C-labeled sample [Neri et al., Biochemistry 28:7510-5 7516 (1989)]. The NOE-derived distance restraints were obtained from ¹⁵N- or 13 C-edited 3D NOESY spectra. ϕ -angle restraints were determined based on the $^3J_{\mathrm{HN,H}^{lpha}}$ coupling constants measured in a 3D HNHA spectrum [Clore and Gronenborn, Meth. Enzymol. 239:249-363 (1994)]. Slowly exchanging amide protons were identified from a series of 2D 15N-HSQC spectra recorded after the H₂O buffer was changed to a ²H₂O buffer. The intermolecular NOEs used in defining the structure of the bromodomain/Ac-histamine complex were detected in ¹³C-edited (F₁), ¹³C/¹⁵N-filtered (F₃) 3D NOESY spectrum [Clore and Gronenborn, *Meth. Enzymol.* 239:249-363 (1994)]. All NMR spectra were processed with the NMRPipe/NMRDraw programs and analyzed using NMRView [Johnson and Blevins, J. Biomol., NMR 4:603-614 (1994)].

Structure calculations: Structures of the bromodomain were calculated with a distance geometry/simulated annealing protocol using the X-PLOR program [Brunger, A. X-PLOR Version 3.1: A system for X-Ray crystallography and NMR, Yale University 20 Press, New Haven, CT, (1993)]. A total of 1324 manually assigned NOE-derived distance restraints were obtained from the ¹⁵N- and ¹³C-edited NOE spectra. Further analysis of the NOE spectra was carried out by the iterative automated assignment procedure using ARIA [Nilges and O'Donoghue, Prog. NMR Spectroscopy 32:107-139 (1998)], which integrates with X-PLOR for structure calculations. A total of 1519 25 unambiguous and 590 ambiguous distance restraints were identified from the NOE data by ARIA, many of which were checked and confirmed manually. The ARIA-assigned distance restraints were in agreement with the structures calculated using only the manually assigned NOE distance restraints, 28 hydrogen-bond distance restraints for 14 hydrogen bonds, and 54ϕ -angle restraints. The final structure calculations employed a total of 3515 NMR experimental restraints obtained from the manual and the ARIA-assisted assignments, 2843 of which were unambiguously assigned NOE-derived distance restraints that comprise of 1077 intra-residue, 621

sequential, 550 medium-range, and 595 long-range NOEs. For the ensemble of the final 30 structures, no distance and torsional angle restraints were violated by more than 0.3Å and 5°, respectively. The total, distance violation, and dihedral violation energies were $178.7 \pm 2.4 \text{ kcal mol}^{-1}$, $41.6 \pm 0.9 \text{ kcal mol}^{-1}$, and $0.50 \pm 0.06 \text{ kcal mol}^{-1}$, respectively. The Lennard-Jones potential which was not used during any refinement stage, was -526.2 ± 16.8 kcal mol⁻¹ for the final structures. Ramachandran plot analysis of the final structures (residues 727-828) with Procheck-NMR [Laskowski et al., J. Biolmol. NMR 8:477-486 (1996)] showed that $71.0 \pm 0.6\%$, $23.8 \pm 0.6\%$, $3.5 \pm 0.2\%$, and $1.7 \pm 0.2\%$ of the non-Gly and non-Pro residues were in the most favorable, 10 additionally allowed, generously allowed, and disallowed regions, respectively. The corresponding values for the residues in the four α -helices (residues 727-743, 770-776, 785-802, and 807-827) were $88.9 \pm 0.4\%$, $11.0 \pm 0.4\%$, $0.1 \pm 0.1\%$, and $0.0 \pm 0.0\%$, respectively. The structure of the bromodomain/acetyl-histamine complex was determined using the free form structure and additional 25 intermolecular and 5 15 intra-ligand NOE-derived distance restraints.

Site-directed mutagenesis: Mutant proteins were prepared using the QuickChange site-directed mutagenesis kit (Stratagene). The presence of appropriate mutations was confirmed by DNA sequencing.

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Ligand titration: Ligand titration experiments were performed by recording a series of 2D ¹⁵N- and ¹³C-HSQC spectra on the uniformly ¹⁵N-, and ¹⁵N/¹³C-labelled bromodomain (~0.3mM), respectively, in the presence of different amounts of ligand concentration ranging from 0 to approximately 2.0 mM. The protein sample and the stock solutions of the ligands were all prepared in the same aqueous buffer containing 100mM phosphate and 5mM perdeuterated DTT at pH 6.5.

The full length nucleic acid sequence of the human p300/CBP-associated factor (P/CAF) was obtained from GenBank. Accession No: U57317.2 (SEQ ID NO:1):

```
1 ggggccgcgt cgacgcggaa aagaaggccgt ggggggcctc ccagcgctgg cagacaccgt
61 gaggctggca gecgccggca cgcacaccta gtccgcagtc ccgaggaaca tgtccgcagc
121 cagggcgcgg agcagagtcc cgggcaggag aaccaaggga gggcgtgtgc tgtggcggcg
181 gcggcagcgg cagcggagcc gctagtcccc tccctcctgg gggagcagct gccgcgctg
241 ccgccgccgc caccaccatc agcgcgcgg gcccggccag agcgagccgg gcgagcggcg
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	301	cgctaggggg	agggcggggg	cggggagggg	ggtgggcgaa	gggggcggga	gggcgtgggg
						ccctggcggc	
						gtccgaggct	
						gcccggggcg	
5						ctgcgccgct	
						gggcacggcc	
						actacgctcc	
						ggccgaggag	
	781	gtaatggctg	gaaaaaccct	aacccctcac	ccactccccc	cagagccgac	ctgcagcaaa
10	841	taattgtcag	tctaacagaa	tcctgtcgga	gttgtagcca	tgccctagct	gctcatgttt
	901	cccacctgga	gaatgtgtca	gaggaagaaa	tgaacagact	cctgggaata	gtattggatg
	961	tggaatatct	ctttacctgt	gtccacaagg	aagaagatgc	agataccaaa	caagtttatt
	1021	tctatctatt	taagctcttg	agaaagtcta	ttttacaaag	aggaaaacct	gtggttgaag
	1081	gctctttgga	aaagaaaccc	ccatttgaaa	aacctagcat	tgaacagggt	gtgaataact
15	1141	ttgtgcagta	caaatttagt	cacctgccag	caaaagaaag	gcaaacaata	gttgagttgg
	1201	caaaaatgtt	cctaaaccgc	atcaactatt	ggcatctgga	ggcaccatct	caacgaagac
	1261	tgcgatctcc	caatgatgat	atttctggat	acaaagagaa	ctacacaagg	tggctgtgtt
	1321	actgcaacgt	gccacagttc	tgcgacagtc	tacctcggta	cgaaaccaca	caggtgtttg
	1381	ggagaacatt	gcttcgctcg	gtcttcactg	ttatgaggcg	acaactcctg	gaacaagcaa
20	1441	gacaggaaaa	agataaactg	cctcttgaaa	. aacgaactct	aatcctcact	catttcccaa
	1501	aatttctgtc	catgctagaa	gaagaagtat	atagtcaaaa	. ctctcccatc	tgggatcagg
						ccaaacagtt	
	1621	ctcctgtggc	tgggacaatt	tcatacaatt	caacctcato	ttcccttgag	cagccaaacg
	1681	cagggagcag	cagtcctgcc	tgcaaagcct	: cttctggact	tgaggcaaac	ccaggagaaa
25	1741	agaggaaaat	gactgattct	catgttctgg	g aggaggccaa	gaaaccccga	gttatggggg
						cacggaccct	
						g ggatgaggcg	
						a ttccctcaac	
						tttctcccac	
30						c gaaacacaaa	
							tctcaaggat
							tatggaacac
							ttcctcacat
							a gaaattaaaa
35							ttáatgggat
							a aagcagaagg
							taccetggae
							ggaattagag
							c cctgaccagc
40							c gcttggccct
							a aggttcccca
							t aagaaattat
							c gctgagagtg
	288	l aatactaca	a atgtgccaa	t atcctggag	a aattcttct	t cagtaaaat	t aaggaagctg

2941 gattaattga caagtgattt tttttccccc tctgcttctt agaaactcac caagcagtgt 3001 gcctaaagca aggt

The full length protein sequence of the human p300/CBP-associated factor (P/CAF)

5 was obtained from GenBank. Accession No: U57317.2, (SEQ ID NO:2):

```
1 MSEAGGAGPG GCGAGAGAG GPGALPPQPA ALPPAPPQGS PCAAAAGGSG ACGPATAVAA
61 AGTAEGPGGG GSARIAVKKA QLRSAPRAKK LEKLGVYSAC KAEESCKCNG WKNPNPSPTP
121 PRADLQQIIV SLTESCRSCS HALAAHVSHL ENVSEEEMNR LLGIVLDVEY LFTCVHKEED
181 ADTKQVYFYL FKLLRKSILQ RGKPVVEGSL EKKPPFEKPS IEQGVNNFVQ YKFSHLPAKE
10 241 RQTIVELAKM FLNRINYWHL EAPSQRRLRS PNDDISGYKE NYTRWLCYCN VPQFCDSLPR
301 YETTQVFGRT LLRSVFTVMR RQLLEQARQE KDKLPLEKRT LILTHFPKFL SMLEEEVYSQ
361 NSPIWDQDFL SASSRTSQLG IQTVINPPPV AGTISYNSTS SSLEQPNAGS SSPACKASSG
421 LEANPGEKRK MTDSHVLEEA KKPRVMGDIP MELINEVMST ITDPAAMLGP ETNFLSAHSA
481 RDEAARLEER RGVIEFHVVG NSLNQKPNKK ILMWLVGLQN VFSHQLPRMP KEYITRLVFD
15 541 PKHKTLALIK DGRVIGGICF RMFPSQGFTE IVFCAVTSNE QVKGYGTHLM NHLKEYHIKH
601 DILNFLTYAD EYAIGYFKKQ GFSKEIKIPK TKYVGYIKDY EGATLMGCEL NPRIPYTEFS
661 VIIKKQKEII KKLIERKQAQ IRKVYPGLSC FKDGVRQIPI ESIPGIRETG WKPSGKEKSK
721 EPRDPDQLYS TLKSILQQVK SHQSAWPFME PVKRTEAPGY YEVIRFPMDL KTMSERLKNR
781 YYVSKKLFMA DLQRVFTNCK EYNAAESEYY KCANILEKFF FSKIKEAGLI DK
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Results

The P/CAF bromodomain represents an extensive family of bromodomains (Figure 1). A large number of long-range nuclear Overhauser enhancement (NOE)-derived

25 distance restraints were identified in the NMR data of the P/CAF bromodomain, yielding a well-defined three-dimensional structure (Figures 2A -2D). Table 1 shows the NMR chemical shift assignment of the P/CAF bromodomain. Table 2 shows the Unambiguous NOE-derived distance restraints. Table 3 shows the Ambiguous NOE-derived distance restraints. Table 4 shows the Hydrogen bond restraints. The NMR structure coordinates of the P/CAF bromodomain in the free and complexed to acetyl-histamine are shown in Tables 5 and 6, respectively.

The structure consists of a four-helix bundle (helices α_Z , α_A , α_B , and α_C) with a left-handed twist, and a long intervening loop between helices α_Z and α_A (termed the ZA loop, Figure 2E). The four amphipathic α -helices are packed tightly against one another in an antiparallel manner, with crossing angles for adjacent helices of ~16-20°. The up-and-down four-helix bundle can adapt two topological folds with opposite

handedness (Figures 2F-2G). The right-handed four-helix bundle fold occurs more commonly and is seen in proteins such as hemerythrin and cytochrome b_{562} . The left-handed fold of the bromodomain structure is less common, but also observed in proteins such as cytochrome b_5 and T4 lysozyme [Richardson, J., Adv. Protein Chem., 34:167-339 (1989); Presnell and Cohen, Proc. Natl. Acad. Sci. USA 86:6592-6596 (1989)]. This topological difference arises from the orientation of the loop between the first two helices (Fig. 2F-2G). The right-handed four-helix bundle proteins have a relatively short hairpin-like connection between the first two helices, which makes the "preferred" turn to the right at the top of the first helix [Richardson, J., Adv. Protein Chem., 34:167-339 (1989); Presnell and Cohen, Proc. Natl. Acad. Sci. USA 86:6592-10 6596 (1989); Weber and Salemme, *Nature* **287**:82-84 (1980)]. In contrast, proteins with the left-handed fold usually have a long loop after the first helix and often contain additional secondary structural elements at the base of the helix bundle [Richardson, J., Adv. Protein Chem., 34:167-339 (1989); Presnell and Cohen, Proc. Natl. Acad. Sci. 15 USA 86:6592-6596 (1989)]. In the bromodomain structure, this long ZA loop has a defined conformation and is packed against the loop between helices α_B and α_C (termed the BC loop) to form a hydrophobic pocket. These tertiary interactions between the two loops appear to favor the left turn of the ZA loop, resulting in the left-handed four-helix bundle fold of the bromodomain. The hydrophobic pocket formed by loops ZA and BC is lined by residues Val752, Ala757, Tyr760, Val763, Tyr802 and Tyr809 (Fig. 2H), and appears to be a site for protein-protein interactions (see below). The pocket is located at one end of the four-helix bundle, opposite to the N- and C-termini of the protein. Interestingly, the ZA loop varies in length amongst different bromodomains, but almost always contains residues corresponding to Phe748, Pro751, Pro758, Tyr760, and Pro767 (Figure 1). The conservation of these residues within the ZA loop as well as residues within the α -helical regions implies a similar left-handed

The modular bromodomain structure supports the idea that bromodomain can act as a functional unit for protein-protein interactions. The observation that bromodomains are found in nearly all known nuclear HATs (A-type) that are known to promote transcription-related acetylation of histones on specific lysine residues, but not present in cytoplasmic HATs (B-type), prompted the determination of whether bromodomains

four-helix bundle structure for the large family of bromodomains (Fig. 1).

can interact with acetyl-lysine (AcK). The NMR titration of the P/CAF bromodomain were performed with a peptide (SGRGKGG-AcK-GLGK) derived from histone H4, in which Lys8 is acetylated (Lys8 is the major acetylation site in H4 for GCN5, a yeast homologue of P/CAF). Remarkably, the bromodomain could indeed bind the AcK peptide. Moreover, this interaction appeared to be specific, based on the ¹⁵N-HSQC spectra which showed that only a limited number of residues underwent chemical shift changes as a function of peptide concentration (Figure 3A). Conversely, the NMR titration of the bromodomain with a non-acetylated, but otherwise identical H4 peptide, showed no noticeable chemical shift changes, demonstrating that the interaction between the bromodomain and the lysine-acetylated H4 peptide was dependent upon acetylation of lysine. The dissociation constant (K_D) for the AcK peptide was estimated to be 346 \pm 54 μM . This binding is likely reinforced through additional interactions between bromodomain-containing proteins and target proteins. Notably, many chromatin-associated proteins contain two or multiple bromodomains (Figure 1). Indeed, binding with another lysine-acetylated peptide (RKSTGG-AcK-APRKQ) derived from the major acetylation site on histone H3 (residues 9-20) was also observed. Together, these data demonstrate that the P/CAF bromodomain has the ability to bind AcK peptides in an acetylation dependent manner.

Intriguingly, the bromodomain residues that exhibited the most significant ¹H and ¹⁵N chemical shift changes on peptide binding are located near the hydrophobic pocket between the ZA and BC loops (Figure 3B). Because a similar pattern of amide chemical shift changes was observed with the two different AcK-containing peptides, it was surmised that the hydrophobic cavity is the primary binding site for AcK. This hypothesis was further supported by titration with acetyl-histamine, which mimics the chemical structure of the AcK side-chain (Figure 3C). Both ¹⁵N- and ¹³C-HSQC spectra showed that interaction with acetyl-histamine was also acetylation-dependent, involving the same set of residues that showed chemical shift perturbations with similar concentration dependence. It should be noted that the bromodomain did not bind to the amino acids acetyl-lysine or acetyl-histidine alone, possibly due to the presence of the charged amino, carboxyl, or caboxylate group adjacent to the acetyl moiety (Figure 3C). Taken together, these results strongly suggest that the P/CAF

bromodomain can interact with acetyl-lysine-containing proteins in a specific manner, and that this interaction is localized to the bromodomain hydrophobic cavity.

To identify the key residues involved in bromodomain-AcK recognition, the NMR structure of the P/CAF bromodomain in complex with acetyl-histamine was elucidated. As anticipated, the acetylated moiety binds in the bromodomain hydrophobic pocket (Figure 4). The intermolecular interactions are largely hydrophobic in nature, with the methyl group of acetyl-histamine making extensive contacts with the side-chains of Val752, Ala757, and Tyr760, and the methylene groups of acetyl-histamine displaying specific NOEs to Val752, Ala757, Tyr760, Tyr802, and Tyr809. No intermolecular NOEs were observed for the imidazole ring of acetyl-histamine. From the spectral analysis it is clear that the structure of the bromodomain is very similar in both the free and complex forms.

- It is worth noting that the bromodomain-AcK recognition is reminiscent of the interactions between the histone acetyltransferase Hat1 and acetyl-CoA. Although the binding pockets of these two otherwise structurally unrelated proteins are composed of different secondary structural elements, the nature of acetyl-lysine recognition has striking similarities. In particular, Tyr809, Tyr802, Tyr760, and Val752 in the bromodomain appear to be related to Phe220, Phe261, Val254, and Ile217 of Hat1, respectively, in their interactions with the acetyl moiety. This observation may suggest an evolutionary convergent mechanism of acetyl-lysine recognition between bromodomains and histone acetyltransferases.
- To determine the relative contributions of residues within the hydrophobic cavity in bromodomain-AcK binding, site-directed mutagenesis was used to alter residues Tyr809, Tyr802, Tyr760, and Val752 (Table 7).

Table 7. Structural and Functional Analysis of the P/CAF Bromodomain Mutants

5	Bromodomain Proteins	Structural Integrity ^a	H4 AcK-Peptide Binding $K_{ m D}(\mu{ m M})^{ m b}$
	Wild-Type	++++	346 ± 54
10	Tyr809Ala	++++	No Binding ^c
	Tyr802Ala	+++	> 10,000 ^d
	Tyr760Ala	+++	> 10,000
15	Val752Ala	++	> 10,000

- a. The effects of mutations on the structural integrity of the bromodomain were assessed by using the ¹⁵N-HSQC spectra. The amide ¹H/¹⁵N resonances of the mutant proteins were compared to those of the wild-type bromodomain to determine if the particular mutations lead to global or local structure disruption. Severe line-broadening of the amide resonances would indicate protein conformational exchange due to a decrease of structure stability resulting from point mutations. Structural integrity of the mutant proteins is expressed here relative to that of the wild-type, using the signs of "++++" for as stable as the wild-type, "+++" for mildly destabilized, "++" for moderately destabilized, and "-" for completely unfolded.
- b. The ligand binding affinity (K_D) of the bromodomain proteins was estimated by following chemical shift changes of amide peaks in the ¹⁵N-HSQC spectra as a
 function of the ligand concentration.
 - c. No detectable ligand binding observed in the NMR titration.
- d. Ligand binding affinity was significantly reduced and beyond the limit for reliablemeasurements by NMR titration.

lysine.

Substitution of Ala for Tyr809 completely abrogated the bromodomain binding to the lysine-acetylated H4 peptide, while the Tyr802Ala, Tyr760Ala, and Val752Ala mutants had significantly reduced ligand binding affinity. To assess whether these mutations disrupted the overall bromodomain fold, the ¹⁵N-HSQC spectra of the mutants was compared to that of the wild-type protein. For the Tyr809Ala mutant, the 5 amide chemical shifts were only affected for a few residues near the mutation site. However, mutations of the other residues in the hydrophobic binding pocket perturbed the local protein conformation to greater extents, particularly the ZA loop (Table 7). Thus, the NMR structural analysis and the mutagenesis studies show that Tyr809, which is structurally supported by Trp746 and Asn803 (Fiure 4), is essential for the bromodomain interaction with the acetyl group of acetyl-lysine, while residues of Tyr802, Tyr760, and Val752 likely play both structural and functional roles in the recognition. These residues are highly conserved throughout the bromodomain family (Figure 1), suggesting that recognition of acetyl-lysine may be a feature of bromodomains, in general. Therefore, Val752, Ala757, Tyr760, Tyr802, Asn803, and Tyr809 are key amino acid residues for the P/CAF bromodomain binding to acetyl-

Table 8: Amino Acid Sequences of Bromodomains Identified in Figure 1

PROTEIN	SEQ ID	GenBank	PROTEIN	SEQ ID	GenBank
BD	NO:	Acc. No.	BD	NO:	Acc. No.
hsp/CAF	7	U57317	dmFSH-2	25	
hsGCN5	8	U57136	scBDF1-2	26	
ttP55	9	U47321	hsBR140	27	JC2069
scGCN5	10	Q03330	hsSMAP	28	X87613
hsP300	11	A54277	ggPB1-1	29	X90849
hsCBP	12	S39162	ggPB1-2	30	
mmCBP	13	S39161	ggPB1-3	31	
ceYNJ1	14	P34545	ggPB1-4	32	
hsCCG1-1	15	P21675	ggPB1-5	33	
msCCG1-1	16	D26114	spBRO-1	34	S54260
hsCCG1-2	17		spBRO-2	35	
msCCG1-2	18		hsSNF2a	36	S45251
hsRing3-1	19	P25440	hsBRG1	37	S39039
hsORFX-1	20	D26362	ggBRM	38	X91638
dmFSH-1	21	P13709	ggBRG1	39	X91637
scBDF1-1	22	P35817	hsTIF1b	40	X97548
hsRing3-2	23		mmTIF1b	41	X99644
hsORFX-2	24		mmTIF1a	42	S78219

The present invention is not to be limited in scope by the specific embodiments described herein. Indeed, various modifications of the invention in addition to those described herein will become apparent to those skilled in the art from the foregoing description and the accompanying figures. Such modifications are intended to fall within the scope of the appended claims.

It is further to be understood that all base sizes or amino acid sizes, and all molecular weight or molecular mass values, given for nucleic acids or polypeptides are approximate, and are provided for description.

5 Various publications are cited herein, the disclosures of which are hereby incorporated by reference herein in their entireties.

WHAT IS CLAIMED IS:

- 1 1. An isolated nucleic acid encoding a peptide consisting of about 21 to 40
- 2 amino acids comprising a ZA loop of a bromodomain comprising the amino acid
- 3 sequence of SEQ ID NO:3.
- 1 2. The isolated nucleic acid of Claim 1 further comprising a heterologous
- 2 nucleotide sequence.
- 1 3. An isolated nucleic acid encoding a peptide consisting of about 21 to 40
- 2 amino acids comprising a ZA loop of a bromodomain, wherein the bromodomain has
- 3 an amino acid sequence selected from the group consisting of SEQ ID NOs. 7, 8, 9,
- 4 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32,
- 5 33, 34, 35, 36, 37, 38, 39, 40, 41, and 42.
- 1 4. The isolated nucleic acid of Claim 3 further comprising a heterologous
- 2 nucleotide sequence.
- 1 5. A peptide consisting of about 21 to 40 amino acids comprising a ZA loop of
- 2 a bromodomain comprising the amino acid sequence of SEQ ID NO:3.
- 1 6. A fusion protein or peptide comprising the peptide of Claim 5.
- 1 7. A peptide consisting of about 21 to 40 amino acids comprising a ZA loop of
- 2 a bromodomain, wherein the bromodomain has an amino acid sequence selected from
- 3 the group consisting of SEQ ID NOs. 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20,
- 4 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, and
- 5 42.

- 1 8. A fusion protein or peptide comprising the peptide of Claim 7.
- 1 9. An antibody raised against the peptide of Claim 7 or raised against an
- 2 antigenic fragment thereof.
- 1 10. An antibody raised against the peptide of Claim 5.
- 1 11. A method of identifying a compound that modulates the affinity of a
- 2 bromodomain for a ligand that comprises an acetyl-lysine,
- 3 said method comprising:
- 4 (a) contacting the bromodomain and the ligand in the presence of the
- 5 compound, wherein the bromodomain and the ligand bind in the absence of the
- 6 compound; and
- 7 (b) measuring the affinity of the bromodomain for the ligand; wherein
- 8 a compound is identified as a compound that modulates the affinty of the
- 9 bromodomain for the ligand when there is a change in the affinity of the
- bromodomain for the ligand in the presence of the compound.
 - 1 12. The method of Claim 11, wherein the affinity of the bromodomain for the
- 2 ligand increases in the presence of the compound and wherein the compound is
- 3 identified as a bromodomain-ligand complex promoting agent.
- 1 13. The method of Claim 11, wherein the affinity of the bromodomain for the
- 2 ligand decreases in the presence of the compound and the compound is identified as an
- 3 inhibitor.
- 1 14. The method of Claim 11, wherein the compound is selected by performing
- 2 rational drug design with the set of atomic coordinates obtained from one or more of

- 3 Tables 1-6, wherein said selecting is performed in conjunction with computer
- 4 modeling.
- 1 15. The method of Claim 11, wherein the compound is selected by performing
- 2 rational drug design with the set of atomic coordinates obtained from a set of atomic
- 3 coordinates defining the three-dimensional structure of a bromodomain consisting of
- 4 the amino acid sequence of SEQ ID NO:7, wherein said selecting is performed in
- 5 conjunction with computer modeling.
- 1 16. A method of identifying a compound that modulates the stability of a
- 2 bromodomain-acetyl-lysine binding complex comprising:
- 3 (a) contacting the bromodomain-acetyl-lysine binding complex in the
- 4 presence of the compound wherein the bromodomain-acetyl-lysine binding complex
- 5 forms in the absence of the compound; and
- 6 (c) measuring the stability of the bromodomain-acetyl-lysine binding
- 7 complex; wherein a compound is identified as a compound that modulates the stability
- 8 of the bromodomain-acetyl-lysine binding complex, when there is a change in the
- 9 stability of the bromodomain-acetyl-lysine binding complex in the presence of the
- 10 compound.
- 1 17. The method of Claim 16, wherein the stability of the bromodomain-acetyl-
- 2 lysine binding complex increases in the presence of the compound and wherein the
- 3 compound is identified as a stabilizing agent.
- 1 18. The method of Claim 16, wherein the stability of the bromodomain-acetyl-
- 2 lysine binding complex decreases in the presence of the compound and the compound
- 3 is identified as an inhibitor.

- 1 19. The method of Claim 16, wherein the compound is selected by performing
- 2 rational drug design with the set of atomic coordinates obtained from one or more of
- 3 Tables 1-6, wherein said selecting is performed in conjunction with computer
- 4 modeling.
- 1 20. The method of Claim 16, wherein the compound is selected by performing
- 2 rational drug design with the set of atomic coordinates obtained from a set of atomic
- 3 coordinates defining the three-dimensional structure of a bromodomain consisting of
- 4 the amino acid sequence of SEQ ID NO:7, wherein said selecting is performed in
- 5 conjunction with computer modeling.
- 1 21. A method of identifying a binding partner for a protein that comprises an
- 2 acetyl-lysine said method comprising:
- 3 (a) contacting the protein with a polypeptide comprising a
- 4 bromodomain; and
- 5 (b) determining whether the polypeptide binds to the protein; wherein
- 6 a binding partner for a protein is identified when polypeptide binds to the protein.
- 1 22. The method of Claim 21 wherein the bromodomain has an amino acid
- 2 sequence from selected from the group consisting of SEQ ID NOs. 7, 8, 9, 10, 11, 12,
- 3 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35,
- 4 36, 37, 38, 39, 40, 41 and 42.
- 1 23. An agent that can inhibit the binding of a bromodomain with a protein
- 2 comprising an acetyl-lysine selected from the group consisting of: ISYGR-AcK-
- 3 KRRQRR (SEQ ID NO:4), ARKSTGG-AcK-APRKQL (SEQ ID NO:5) and
- 4 QSTSRHK-AcK-LMFKTE (SEQ ID NO:6).

ABSTRACT OF THE INVENTION

The present invention provides the structural determination of a bromodomain determined by NMR spectroscopy. The present invention also provides a binding partner for the bromodomain. In addition, the present invention provides methodology for related drug discovery using high throughput drug screening or structure based rational drug design using the three-dimensional data.

Table 1 NMR Chemical Shift Assignment of the P/CAF Bromodomain	HETEROGENEITY 100 N 121.192000 HN 8.416000 CA 63.430000 HA 4.331000 CB 30.930000 HB1 1.815000 HB2 1.762000 CG 27.630000	CA 62.320000 HA 4.038000 CB 38.640000 HB1 3.211000 HB2 3.024000 CD1 134.350000 HD1 7.053000 CE1 119.481000 HE1 6.882000	CG1 28.733000 HG11 1.748000 HG12 1.052000 CG2 17.168000 HG2# 1.003000 CD1 13.863000 HD1# 0.619000 END_RES_DEF
RES_ID 715	HGI 1.681000 CD 43.603000 HD1 3.161000 END_RES_DEF	END_RES_DEF RES_ID 730 RES_TYPE SER	RES_ID 736 RES_TYPE LEU SPIN_SYSTEM_ID 22 HETEROGENEITY 100
RES_TYPE GLY SPIN_SYSTEM_ID 1 HETEROGENEITY 100 END_RES_DEF	RES_ID 724 RES_TYPE ASP SPIN_SYSTEM_ID 10 HETEROGENEITY 100 N 122.012000	SPIN_SYSTEM_ID 16 HETEROGENEITY 100 N 112.173000 HN 8.167000 HA 3.920000	N 119.880000 HN 8.841000 CA 58.473000 HA 4.090000 CB 41.950000
RES_ID 716 RES_TYPE SER SPIN_SYSTEM_ID 2 HETEROGENEITY 100 EMD_RES_DEF	HN 8.273000 CA 52.415000 HA 4.874000 CB 41.400000 HB1 2.754000	HB1 3.995000 END_RES_DEF RES_ID 731 RES_TYPE THR SPIN_SYSTEM ID 17	HB1 2.090000 HB2 1.703000 CG 27.330000 HG 1.759000 CD1 26.530000 HD1# 1.061000
RES_ID 717 RES_TYPE HIS SPIN_SYSTEM_ID 3 HETEROGEMEITY 100 END_RES_DEF	HBZ 2.692000 END_RES_DEF RES_ID 725 RES_TYPE PRO SPIN_SYSTEM_ID 11	HETEROGENEITY 100 N 120.372000 HN 8.059000 CA 66.730000 HA 3.924000	CD2 23.776000 HD2# 0.977000 END_RES_DEF
RES_ID 718 RES_TYPE MET SPIN_SYSTEM_ID 4 HETEROGENEITY 100 END_RES_DEF	HETEROGENEITY 100 CA 65.080000 HA 4.329000 CB 32.590000 HB1 2.326000 HB2 1.973000	CB 68.930000 HB 4.247000 CG2 21.570000 HG2# 1.142000 END_RES_DEF RES_ID 732	RES_TYPE GLN SPIN_SYSTEM_ID 23 HETEROGENEITY 100 N 117.256000 HN 8.505000 CA 59.020000
RES_ID 719 RES_TYPE SER SPIN_SYSTEM_ID 5 HETEROGENEITY 100 END_RES_DEF	CG 27.632000 HG1 2.028000 CD 51.310000 HD1 3.866000 END_RES_DEF RES_ID 726	RES_TYPE LEU SPIN_SYSTEM_ID 18 HETEROGENEITY 100 N 120.536000 HN 8.460000 CA 57.920000 HA 3.289000	HA 4.032000 CB 28.182000 HB1 2.327000 HB2 2.263000 CG 34.240000 HG1 2.536000 HG2 2.461000
RES_ID 720 RES_TYPE LYS SPIN_SYSTEM_ID 6 HETEROGENETTY 100 CA 56.296000 HA 4.361000 CB 33.140000 HB1 1.882000 HB2 1.684000 CG 25.430000 HG1 1.585000 HG2 1.433000	RES_TYPE ASP SPIN_SYSTEM_ID 12 HETEROGEMEITY 100 N 119.716000 HN 8.397000 CA 55.720000 HA 4.692000 CB 40.550000 HB1 2.792000 HB2 2.730000 END_RES_DEF	CB 39.750000 HB1 1.532000 HB2 0.294000 CG 24.880000 HG 1.683000 CD1 25.429000 HD1# 0.469000 CD2 19.921000 HD2# -0.193000 END_RES_DEF	END_RES_DEF RES_ID 738 RES_TYPE GLN SPIN_SYSTEM_ID 24.4 HETEROGENEITY 100 N 118.896000 HN 8.033000 CA 59.574000 HA 4.196000 CB 29.835000 HB1 2.482000
CD 29.834000 HD1 1.703000 CE 41.960000 HB1 3.003000 END_RES_DEF	RES_ID 727 RES_TYPE GLN SPIN_SYSTEM_ID 13 HETEROGENEITY 100 N 121.356000 HN 8.196000	RES_ID 733 RES_TYPE LYS SPIN_SYSTEM_ID 19 HETEROGENEITY 100 N 118.568000 HN 8.563000 CA 60.125000	HB2 2.469000 CG 35.342000 HG1 2.840000 HG2 2.467000 NE2 110.369000 HE21 7.022000
RES_ID 721 RES_TYPE GLU SPIN_SYSTEM_ID 7 HETEROGENEITY 100 N 122.990000 HN 8.317000 CA 54.620000 HA 4.540000 CB 29.830000 HB1 2.024000 HB2 1.893000 CG 35.893000 CG 35.893000 END_RES_DEF	CA 55.920000 HA 4.163000 CB 28.730000 HBI 2.148000 CG 34.240000 HG1 2.524000 HG2 2.371000 END_RES_DEF RES_ID 728 RES_TYPE LEU SPIN_SYSTEM_ID 14 HETEROGENEITY 100 N 121.355000	HA 3.679000 CB 32.588000 HB1 1.729000 HB2 1.360000 CG 24.880000 HG1 1.280000 CD 29.835000 HD1 1.585000 CE 41.960000 HE1 2.918000 END_RES_DEF RES_ID 734	HE22 6.916000 END_RES_DEF RES_ID 739 RES_TYPE VAL SPIN_SYSTEM_ID 25 HETEROGENEITY 100 N 119.716000 HN 8.526000 CA 67.830000 HA 3.844000 CB 32.030000 HB 2.384000 CG1 23.330000
RES_ID 722 RES_TYPE PRO SPIN_SYSTEM_ID 8 HETEROGENEITY 100 CA 63.430000 HA 4.393000 CB 32.030000 HB1 2.224000 HB2 1.880000 CG 27.630000 HG1 2.028000 CD 50.760000 HD2 3.6556000 HD1 3.8000000 END_RES_DEF	HN 8.210000 CA 58.473000 HA 4.045000 CB 41.400000 HB1 1.847000 HB2 1.555000 CG 27.080000 HG 1.480000 CD1 25.970000 HD1# 0.794000 CD2 23.226000 HD2# 0.786000 END_RES_DEF	RES_TYPE SER SPIN_SYSTEM_ID 20 HETEROGENEITY 100 N 113.157000 HN 7.540000 CA 61.227000 HA 4.281000 CB 63.879000 HB1 4.060000 END_RES_DEF RES_ID 735 RES_TYPE ILE SPIN_SYSTEM_ID 21 HETEROGENEITY 100 N 120.700000	HG1# 1.183000 CG2 22.120000 HG2# 1.033000 END_RES_DEF RES_ID 740 RES_TYPE LYS SPIN_SYSTEM_ID 26 HETEROGENEITY 100 N 114.633000 HN 8.572000 CA 59.574000 HA 3.886000 CB 32.380000 HB1 1.873000
RES_ID 723 RES_TYPE ARG SPIN_SYSTEM_ID 9	RES_TYPE TYR SPIN_SYSTEM_ID 15 HETEROGENEITY 100 N 119.060000 HN 8.021000	HN 7.951000 CA 65.080000 HA 3.786000 CB 38.095000 HB 1.879000	HGI 1.022000 HD1 1.520000 END_RES_DEF RES_ID 741 RES_TYPE SER

SPIN SYSTEM ID 27	RES_TYPE PRO	PIN DEG DEG	
HETEROGENEITY 100	SPIN SYSTEM ID 33	END_RES_DEF	CB 39.750000
N 110.369000	HETEROGENEITY 100	RES ID 753	HB1 2.689000 HB2 2.487000
HN 7.557000	CA 64.531000	RES_TYPE LYS	CD1 133.799000
CA 59.024000 HA 4.448000	HA 3.756000	SPIN_SYSTEM_ID 39	HD1 5.120000
CB 63.980000	CB 29.835000	HETEROGENEITY 100	CE1 118.379000
HB1 4.004000	HB1 0.487000 HB2 -0.783000	N 129.883000	HE1 6.070000
END_RES_DEF	HB2 -0.783000 CG 26.530000	HN 9.045000	END_RES_DEF
	HG1 0.233000	CA 56.310000	
RES_ID 742	HG2 -0.931000	HA 4.370000 CB 32.880000	RES_ID 761
RES_TYPE HIS	CD 50.212000	HB1 1.873000	RES_TYPE TYR
SPIN_SYSTEM_ID 28	HD2 1.567000	HG1 1.435000	SPIN_SYSTEM_ID 47 HETEROGENEITY 100
HETEROGENEITY 100	HD1 2.177000	HD1 1.673000	N 113.157000
N 125.619000 HN 7.536000	END_RES_DEF	HE1 2.985000	HN 8.225000
CA 58.473000	DOG TO	END_RES_DEF	CA 60.676000
HA 3.967000	RES_ID 748		HA 4.101000
CB 32.588000	RES_TYPE PHE SPIN SYSTEM ID 34	RES_ID 754	CB 37.550000
HB1 2.990000	HETEROGENEITY 100	RES_TYPE ARG	HB1 3.189000
HB2 2.799000	N 113.321000	SPIN_SYSTEM_ID 40 HETEROGENEITY 100	HB2 2.801000
CD2 118.930000	HN 7.585000	N 120.208000	CD1 134.901000 HD1 7.342000
HD2 4.978000	CA 55.719000	HN 8.054000	CE1 118.930000
CE1 138.755000	HA 4.930000	END_RES_DEF	HE1 6.646000
HE1 7.522000	CB 39.202000	_ _	END_RES_DEF
END_RES_DEF	. HB1 3.491000	RES_ID 755	
RES_ID 743	HB2 2.532000 CD1 133.248000	RES_TYPE THR	RES_ID 762
RES_TYPE GLN	HD1 7.099000	SPIN_SYSTEM_ID 41	RES_TYPE GLU
SPIN SYSTEM ID 29	HE1 7.174000	HETEROGENEITY 100	SPIN_SYSTEM_ID 48
HETEROGENEITY 100	HZ 7.296000	CA 63.430000 HA 4.038000	HETEROGENEITY 100
N 128.571000	END_RES_DEF	CB 68.380000	N 117.912000 HN 7.702000
HN 8.543000	- -	HB 4.293000	CA 57.922000
CA 59.125000	RES_ID 749	CG2 22.670000	HA 4.209000
HA 4.209000	RES_TYPE MET	HG2# 1.267000	CB 29.480000
CB 29.834000 HB1 2.111000	SPIN_SYSTEM_ID 35	END_RES_DEF	HB1 2.086000
CG 33.690000	HETEROGENEITY 100		CG 37.545000
HG1 2.390000	N 117.748000 HN 7.115000	RES_ID 756	HG1 2.325000
NE2 112.173000	CA 56.820000	RES_TYPE GLU	HG2 2.265000
HE21 7.581000	HA 4.286000	SPIN_SYSTEM_ID 42 HETEROGENEITY 100	END_RES_DEF
HE22 6.870000	CB 32.590000	N 118.732000	pec in aca
END_RES_DEF	HB1 2.233000	HN 7.209000	RES_ID 763 RES_TYPE VAL
	HB2 2.174000	CA 56.270000	SPIN_SYSTEM_ID 49
RES_ID 744	CG 33.140000	HA 4.448000	HETEROGENEITY 100
RES_TYPE SER SPIN_SYSTEM ID 30	HG1 2.851000	CB 30.930000	N 115.453000
HETEROGENEITY 100	CE 17.168000	HB1 2.174000	HN 7.135000
N 119.060000	HE# 2.175000 END_RES_DEF	HB2 2.000000	CA 63.430000
HN 11.668000	TWO_KDO_DDE	CG 36.440000 HG1 2.292000	HA 4.077000
CA 60.125000	RES_ID 750	END_RES DEF	CB 33.690000
HA 4.838000	RES_TYPE GLU		HB 2.015000 CG1 21.020000
CB 63.980000	SPIN_SYSTEM_ID 36	RES_ID 757	HG1# 1.045000
HB1 4.334000	HETEROGENEITY 100	RES_TYPE ALA	CG2 21.574000
HB2 3.926000 END_RES_DEF	N 113.813000	SPIN_SYSTEM_ID 43	HG2# 0.991000
240_K45_B4F	HN 7.709000 CA 53.516000	HETEROGENEITY 100	END_RES_DEF
RES ID 745	HA 4.849000	N 122.504000	
RES_TYPE ALA	CB 31.487000	HN 7.379000 CA 50.220000	RES_ID 764
SPIN_SYSTEM_ID 31	HB1 2.091000	HA 4.937000	RES_TYPE ILE SPIN_SYSTEM ID 50
HETEROGENEITY 100	HB2 1.730000	CB 19.370000	HETEROGENEITY 100
N 117.584000	CG 35.893000	HB# 1.082000	N 122.832000
HN 7.868000 CA 53.510000	HG1 2.164000	END_RES_DEF	HN 7.947000
HA 4.396000	END_RES_DEF		CA 57.920000
CB 20.470000	RES_ID 751	RES_ID 758	HA 3.916000
HB# 1.688000	RES TYPE PRO	RES_TYPE PRO SPIN_SYSTEM_ID 44	CB 34.240000
END_RES_DEF	SPIN SYSTEM ID 37	SPIN_SYSTEM_ID 44 HETEROGENEITY 100	HB 1.205000
nno rn	HETEROGENEITY 100	CA 65.080000	CG1 24.878000 HG11 0.798000
RES_ID 746	CA 62.879000	HA 4.496000	HG12 0.216000
RES_TYPE TRP SPIN_SYSTEM ID 32	HA 4.242000	CB 31.487000	CG2 16.617000
HETEROGENEITY 100	CB 32.040000 HB1 2.328000	HB1 2.374000	HG2# 0.380000
N 116.600000	HB2 1.683000	HB2 2.027000	CD1 9.457000
HN 7.135000	CG 27.080000	CG 27.632000	HD1# 0.537000
CA 60.691000	HG1 2.126000	HG1 2.122000 HG2 2.038000	END_RES_DEF
HA 4.368000	HG2 1.978000	CD 50.212000	DEC ID SCE
CB 27.630000	CD 50.763000	HD2 3.515000	RES_ID 765 RES_TYPE ARG
HB1 3.594000	HD1 3.670000	HD1 3.717000	SPIN_SYSTEM_ID 51
HB2 3.351000 CD1 128.843000	END_RES_DEF	END_RES_DEF	HETEROGENEITY 100
HD1 7.897000	DEC ID		N 125.291000
NE1 110.861000	RES_ID 752 RES_TYPE VAL	RES_ID 759	HN 7.749000
HE1 10.474000	SPIN_SYSTEM ID 38	RES_TYPE GLY	CA 57.371000
CE3 122.234000	HETEROGENEITY 100	SPIN_SYSTEM_ID 45 HETEROGENEITY 100	HA 3.875000
HE3 7.336000	N 124.450000	END_RES_DEF	CB 30.936000
CZ2 116.177000	HN 8.124000	<u>-</u> <u>-</u>	HB1 1.388000 HB2 1.211000
HZ2 7.382000	CA 63.430000	RES_ID 760	CG 27.080000
CZ3 123.336000 HZ3 7.197000	HA 3.553000	RES_TYPE TYR	HG1 1.319000
CH2 126.089000	CB 32.580000	SPIN_SYSTEM_ID 46	HG2 1.173000
НН2 7.150000	HB 1.145000 CG1 21.573000	HETEROGENEITY 100	CD 43.052000
END_RES_DEF	HG1# 0.464000	N 122.504000	HD1 2.971000
- -	CG2 21.573000	HN 7.945000 CA 62.328000	end_res_def
RES_ID 747	HG2# 0.169000	HA 3.536000	RES ID 766
			RES_ID 766

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RES_TYPE SER	THE RES DER		
SPIN_SYSTEM_ID 52	END_RES_DEF	CD1 25.429000	SPIN_SYSTEM_ID 69
	DDG 2D	HD1# 1.067000	HETEROGENEITY 100
HETEROGENEITY 100 N 116.600000	RES_ID 772	CD2 27.081000	N 115.780000
HN 8.387000	RES_TYPE THR	HD2# 0.871000	HN 7.698000
	SPIN_SYSTEM_ID 58	END_RES_DEF	CA 62.330000
CA 54.618000 HA 4.984000	HETEROGENEITY 100		HA 4.083000
	N 122.176000	RES_ID 778	CB 31.500000
	HN 9.445000	RES_TYPE LYS	HB 2.321000
HB1 3.034000	CA 67.040000	SPIN SYSTEM ID 64	CG1 21.570000
HB2 2.907000	HA 3.845000	HETEROGENEITY 100	HG1# 0.944000
END_RES_DEF	CB 67.835000	N 120.372000	CG2 18.820000
	HB 4.090000	HN 7.958000	HG2# 0.823000
RES_ID 767	CG2 22.124000	CA 59.574000	END_RES_DEF
RES_TYPE PRO	HG2# 1.058000	HA 4.333000	
SPIN_SYSTEM_ID 53	END_RES_DEF	CB 32.588000	RES_ID 784
HETEROGENEITY 100		HB1 2.055000	RES_TYPE SER
CA 63.429000	RES_ID 773	CG 24.878000	SPIN_SYSTEM ID 70
HA 4.083000	RES_TYPE MET	HG1 1.596000	HETEROGENEITY 100
CB 32.588000	SPIN_SYSTEM_ID 59	CD 29.835000	N 111.353000
HB1 2.209000	HETEROGENEITY 100	HD1 1.804000	HN 7.415000
CG 28.180000	N 117.912000	CE 41.951000	CA 55.719000
HG1 2.177000	HN 7.882000	HE1 2.990000	HA 4.741000
HG2 1.883000	CA 60.676000	END_RES_DEF	CB 66.183000
*CD 50.763000	HA 4.319000		HB1 4.200000
HD2 3.390000	CB 33.342000	RES_ID 779	HB2 3.750000
HD1 3.623000	HB1 2.093000	RES TYPE ASN	END_RES_DEF
END_RES_DEF	HB2 1.915000	SPIN_SYSTEM_ID 65	
	CG 33.139000	HETEROGENEITY 100	RES ID 785
RES_ID 768	HG1 2.621000	N 116.108000	RES TYPE LYS
RES_TYPE MET	HG2 2.496000	HN 7.947000	SPIN_SYSTEM ID 71
SPIN_SYSTEM_ID 54	CE 16.620000	CA 53.510000	
HETEROGENEITY 100	HE# 1.241000	HA 4.771000	HETEROGENEITY 100 CA 59.030000
N 119.060000	END_RES_DEF	CB 38.095000	
HN 8.430000	~ ~	HB1 3.019000	HA 4.021000
CA 54.067000	RES ID 774	HB2 2.773000	CB 31.590000
HA 4.935000	RES_TYPE SER	ND2 112.665000	END_RES_DEF
CB 31.487000	SPIN_SYSTEM ID 60	HD21 7.598000	777 77
HB1 1.989000	HETEROGENEITY 100	HD22 6.969000	RES_ID 786
HB2 1.353000	N 116.108000	END_RES_DEF	RES_TYPE LYS
CG 30.930000	HN 7.958000	DYD_KEQ_DEL	SPIN_SYSTEM_ID 72
HG1 2.690000	CA 62.879000	RES_ID 780	HETEROGENEITY 100
CE 14.414000	HA 4.200000	RES_TYPE ARG	N 120.208000
HE# 1.929000	CB 62.879000		HN 8.244000
END_RES_DEF	HB1 4.368000	SPIN_SYSTEM_ID 66 HETEROGENEITY 100	CA 59.720000
	HB2 4.040000	N 114.141000	HA 4.062000
RES_ID 769	END_RES DEF	HN 8.158000	CB 30.385000
RES_TYPE ASP		CA 56.821000	HB1 1.779000
SPIN SYSTEM ID 55	RES ID 775		CG 24.530000
HETEROGENEITY 100	RES_TYPE GLU	HA 4.405000	CD 28.182000
N 119.060000	SPIN_SYSTEM ID 61	CB 25.429000	HD1 1.680000
HN 7.365000	HETEROGENEITY 100	HB1 2.097000	CE 41.670000
CA 53.516000	N 124.471000	HB2 2.022000	HE1 3.137000
HA 4.745000	HN 8.150000	CG 27.632000	HE2 3.045000
CB 44.154000	CA 59.570000	HG1 1.539000	END_RES_DEF
HB1 2.371000	HA 4.045000	HG2 1.534000	
END RES DEF	CB 29.280000	CD 43.050000	RES_ID 787
	HB1 2.246000	HD1 3.060000	RES_TYPE LEU
RES ID 770	HB2 2.063000	HD2 3.024000	SPIN_SYSTEM_ID 73
RES TYPE LEU	CG 36.443000	END_RES_DEF	HETEROGENEITY 100
SPIN_SYSTEM ID 56	HG1 2.345000	nng in	N 118.732000
HETEROGENEITY 100	HG2 2.176000	RES_ID 781	HN 7.422000
N 116.272000	END_RES_DEF	RES_TYPE TYR	CA 57.922000
HN 9.055000		SPIN_SYSTEM_ID 67	HA 4.213000
CA 57.922000	RES_ID 776	HETEROGENEITY 100	CB 43.603000
HA 4.036000	RES_TYPE ARG	N 116.764000	HB1 1.996000
CB 41.400000	SPIN SYSTEM ID 62	HN 8.222000	HB2 1.891000
HB1 2.095000	HETEROGENEITY 100	CA 60.125000	CG 27.632000
HB2 1.395000	N 120.372000	HA 4.064000 CB 40.850000	HG 1.794000
CG 27.080000	HN 8.391000	HB1 2.948000	CD1 25.979000
HG 1.713000	CA 60.676000		HD1# 0.924000
CD1 27.080000	HA 3.869000	HB2 2.055000 CD1 134.350000	CD2 23.776000
HD1# 0.940000	CB 30.385000		HD2# 0.895000
CD2 22.675000	HB1 2.047000	HD1 6.285000 `	END_RES_DEF
HD2# 0.628000	HB2 1.076000	CE1 118.930000	
1102# 0.02000		HE1 6.709000	RES_ID 788
			RES_TYPE PHE
END_RES_DEF	CG 29.284000	END_RES_DEF	
	CG 29.284000 HG1 1.722000	_ -	SPIN_SYSTEM_ID 74
END_RES_DEF RES_ID 771	CG 29.284000 HG1 1.722000 HG2 0.877000	RES_ID 782	HETEROGENEITY 100
END_RES_DEF RES_ID 771 RES_TYPE LYS	CG 29.284000 HG1 1.722000 HG2 0.877000 CD 44.154000	RES_ID 782 RES_TYPE TYR	HETEROGENEITY 100 N 118.732000
END_RES_DEF RES_ID 771 RES_TYPE LYS SPIN_SYSTEM_ID 57	CG 29.284000 HG1 1.722000 HG2 0.877000 CD 44.154000 HD1 2.578000	RES_ID 782 RES_TYPE TYR SPIN_SYSTEM_ID 68	HETEROGENEITY 100 N 118.732000 HN 6.928000
END_RES_DEF RES_ID 771 RES_TYPE LYS SPIN_SYSTEM_ID 57 HETEROGENEITY 100	CG 29.284000 HG1 1.722000 HG2 0.877000 CD 44.154000 HD1 2.578000 HD2 2.051000	RES_ID 782 RES_TYPE TYR SPIN_SYSTEM_ID 68 HETEROGENEITY 100	HETEROGENEITY 100 N 118.732000 HN 6.928000 CA 60.676000
END_RES_DEF RES_ID 771 RES_TYPE LYS SPIN_SYSTEM_ID 57	CG 29.284000 HG1 1.722000 HG2 0.877000 CD 44.154000 HD1 2.578000	RES_ID 782 RES_TYPE TYR SPIN_SYSTEM_ID 68 HETEROGENEITY 100 N 114.633000	HETEROGENEITY 100 N 118.732000 HN 6.928000 CA 60.676000 HA 3.763000
END_RES_DEF RES_ID 771 RES_TYPE LYS SPIN_SYSTEM_ID 57 HETERGGENSITY 100 N 128.079000 HN 8.738000	CG 29.284000 HG1 1.722000 HG2 0.877000 CD 44.154000 HD1 2.578000 HD2 2.051000 END_RES_DEF	RES_ID 782 RES_TYPE TYR SPIN_SYSTEM_ID 68 HETERGGENEITY 100 N 114.633000 HN 8.014000	HETERGSENEITY 100 N 118.732000 HN 6.928000 CA 60.676000 HA 3.763000 CB 39.750000
END_RES_DEF RES_ID 771 RES_TYPE LYS SPIN_SYSTEM_ID 57 HETEROGENEITY 100 N 128.079000	CG 29.284000 HG1 1.722000 HG2 0.877000 CD 44.154000 HD1 2.578000 HD2 2.051000 END_RES_DEF RES_ID 777	RES_ID 782 RES_TYPE TYR SPIN_SYSTEM_ID 68 HETEROGENEITY 100 N 114.633000 EN 8.014000 CA 57.920000	HETEROGENEITY 100 N 118.732000 HN 6.928000 CA 60.676000 HA 3.763000 CB 39.750000 HB1 2.945000
END_RES_DEF RES_ID 771 RES_TYPE LYS SPIN_SYSTEM_ID 57 HETEROGENEITY 100 N 128.079000 HN 8.738000 CA 60.676000 HA 4.198000	CG 29.284000 HG1 1.722000 HG2 0.877000 CD 44.154000 HD1 2.578000 HD2 2.051000 END_RES_DEF RES_ID 777 RES_TYPE LEU	RES_ID 782 RES_TYPE TYR SPIN_SYSTEM_ID 68 HETEROGENEITY 100 N 114.633000 HN 8.014000 CA 57.920000 HA 4.528000	HETEROGENEITY 100 N 118.732000 HN 6.928000 CA 60.676000 HA 3.763000 CB 39.750000 HB1 2.945000 HB2 2.381000
END_RES_DEF RES_ID 771 RES_TYPE LYS SPIN_SYSTEM_ID 57 HETEROGENEITY 100 N 128.079000 HN 8.738000 CA 60.676000 CA 4.198000 CB 32.037000	CG 29.284000 HG1 1.722000 HG2 0.877000 CD 44.154000 HD1 2.578000 HD2 2.051000 END_RES_DEF RES_ID 777 RES_TYPE LEU SPIN_SYSTEM ID 63	RES_ID 782 RES_TYPE TYR SPIN_SYSTEM_ID 68 HHTTERGGENEITY 100 N 114.633000 HN 8.014000 CA 57.920000 HA 4.528000 CB 36.443000	HETERGSENEITY 100 N 118.732000 HN 6.928000 CA 60.676000 HA 3.763000 CB 39.750000 HB1 2.945000 HB2 2.381000 CD1 133.799000
END_RES_DEF RES_ID 771 RES_TYPE LYS SPIN_SYSTEM_ID 57 HETEROGENSITY 100 N 128.079000 HN 8.738000 CA 60.676000 HA 4.198000 CB 32.037000 HB 1 2.330000	CG 29.284000 HG1 1.722000 HG2 0.877000 CD 44.154000 HD1 2.578000 HD2 2.051000 END_RES_DEF RES_ID 777 RES_TYPE LEU SPIN_SYSTEM_ID 63 HETEROGENEITY 100	RES_ID 782 RES_TYPE TYR SPIN_SYSTEM_ID 68 HETERGGENEITY 100 N 114.633000 HN 8.014000 CA 57.920000 HA 4.528000 CB 36.443000 HB1 3.062000	HETEROGENEITY 100 N 118.732000 HN 6.28000 CA 60.676000 HA 3.763000 CB 39.750000 HB1 2.945000 HB2 2.381000 CD1 133.799000 HD1 6.400000
END_RES_DEF RES_ID 771 RES_TYPE LYS SPIN_SYSTEM_ID 57 HFTERGGENSITY 100 N 128.079000 HN 8.738000 CA 60.676000 HA 4.198000 CB 32.037000 HB1 2.330000 HB1 2.320000	CG 29.284000 HG1 1.722000 HG2 0.877000 CD 44.154000 HD1 2.578000 HD2 2.051000 END_RES_DEF RES_ID 777 RES_TYPE LEU SPIN_SYSTEM_ID 63 HETEROGENEITY 100 N 120.208000	RES_ID 782 RES_TYPE TYR SPIN_SYSTEM_ID 68 HETEROGENEITY 100 N 114.633000 HN 8.014000 CA 57.920000 HA 4.528000 CB 36.443000 HB1 3.062000 HB2 2.997000	HETEROGENEITY 100 N 118.732000 HN 6.928000 CA 60.676000 HA 3.763000 CB 39.750000 HB1 2.945000 HB2 2.381000 CD1 133.799000 HD1 6.400000 CE1 131.596000
END_RES_DEF RES_ID 771 RES_TYPE LYS SPIN_SYSTEM_ID 57 HETEROGENEITY 100 N 128.079000 HN 8.738000 CA 60.676000 HA 4.198000 CB 32.037000 HB1 2.330000 HB2 2.224000 CG 25.280000	CG 29.284000 HG1 1.722000 HG2 0.877000 CD 44.154000 HD1 2.578000 HD2 2.051000 END_RES_DEF RES_ID 777 RES_TYPE LEU SPIN_SYSTEM_ID 63 HETEROGENEITY 100 N 120.208000 HN 8.856000	RES_ID 782 RES_TYPE TYR SPIN_SYSTEM_ID 68 HETERGGENEITY 100 N 114.633000 HN 8.014000 CA 57.920000 HA 4.528000 CB 36.443000 HB1 3.062000 HB2 2.907000 CD1 133.248000	HETERGGENEITY 100 N 118.732000 HN 6.928000 CA 60.676000 HA 3.763000 CB 39.750000 HB1 2.945000 HB2 2.381000 CD1 133.799000 HD1 6.400000 CE1 131.596000 HE1 6.928000
END_RES_DEF RES_ID 771 RES_TYPE LYS SPIN_SYSTEM_ID 57 HETEROGENSITY 100 N 128.079000 HN 8.738000 CA 60.676000 HA 4.198000 CB 32.037000 HB1 2.330000 HB2 2.224000 CG 25.280000 HG1 1.483000	CG 29.284000 HG1 1.722000 HG2 0.877000 CD 44.154000 HD1 2.578000 HD2 2.051000 END_RES_DEF RES_ID 777 RES_TYPE LEU SPIN_SYSTEM_ID 63 HETEROGENEITY 100 N 120.208000 HN 8.856000 CA 58.470000	RES_ID 782 RES_TYPE TYR SPIN_SYSTEM_ID 68 HHTTERGGENEITY 100 N 114.633000 HN 8.014000 CA 57.920000 HA 4.528000 CB 36.443000 HB1 3.062000 HB2 2.907000 CD1 133.248000 HD1 7.175000	HETEROGENEITY 100 N 118.732000 HN 6.928000 CA 60.676000 HA 3.763000 CB 39.750000 HB1 2.945000 HB2 2.381000 CD1 133.799000 HD1 6.400000 CE1 131.596000
END_RES_DEF RES_ID 771 RES_TYPE LYS SPIN_SYSTEM_ID 57 HETEROGENBITY 100 N 128.079000 HN 8.738000 CA 60.676000 HA 4.198000 CB 32.037000 HB1 2.330000 HB2 2.224000 CG 25.280000 HG1 1.483000 HG2 1.403000	CG 29.284000 HG1 1.722000 HG2 0.877000 CD 44.154000 HD1 2.578000 HD2 2.051000 END_RES_DEF RES_ID 777 RES_TYPE LEU SPIN_SYSTEM_ID 63 HETERGGENEITY 100 N 120.208000 HN 8.856000 CA 58.470000 HA 4.691000	RES_ID 782 RES_TYPE TYR SPIN_SYSTEM_ID 68 HETEROGENEITY 100 N 114.633000 HN 8.014000 CA 57.920000 HA 4.528000 CB 36.443000 HB1 3.062000 HB2 2.907000 CD1 133.248000 HD1 7.175000 CCI 120.582000	HETERGGENEITY 100 N 118.732000 HN 6.928000 CA 60.676000 HA 3.763000 CB 39.750000 HB1 2.945000 HB2 2.381000 CD1 133.799000 HD1 6.400000 CE1 131.596000 HE1 6.928000
END_RES_DEF RES_ID 771 RES_TYPE LYS SPIN_SYSTEM_ID 57 HETERCGENEITY 100 N 128.079000 HN 8.738000 CA 60.676000 HA 4.198000 CB 32.037000 HB1 2.330000 HB1 2.330000 HB2 2.224400 CG 25.280000 HG1 1.483000 CG 25.280000 HG2 1.403000 CD 30.385000	CG 29.284000 HG1 1.722000 HG2 0.877000 CD 44.154000 HD1 2.578000 HD2 2.051000 END_RES_DEF RES_ID 777 RES_TYPE LEU SPIN_SYSTEM_ID 63 HETEROGENEITY 100 N 120.208000 HN 8.856000 CA 58.470000 HA 4.691000 CB 42.621000	RES_ID 782 RES_TYPE TYR SPIN_SYSTEM_ID 68 HETERGGENEITY 100 N 114.633000 HN 8.014000 CA 57.920000 HA 4.528000 CB 36.443000 HB1 3.062000 HB2 2.907000 CD1 133.248000 HD1 7.175000 CE1 120.582000 HE1 7.286000	HETERGGENEITY 100 N 118.732000 HN 6.928000 CA 60.676000 HA 3.763000 CB 39.750000 HB1 2.945000 HB2 2.381000 CD1 133.799000 HD1 6.400000 CE1 131.596000 HE1 6.928000
END_RES_DEF RES_ID 771 RES_TYPE LYS SPIN_SYSTEM_ID 57 HETEROGENBITY 100 N 128.079000 HN 8.738000 CA 60.676000 HA 4.198000 CB 32.037000 HB1 2.330000 HB2 2.224000 CG 25.280000 HG1 1.483000 HG2 1.403000 CD 30.385000 HD1 1.793000	CG 29.284000 HG1 1.722000 HG2 0.877000 CD 44.154000 HD1 2.578000 HD2 2.051000 END_RES_DEF RES_ID 777 RES_TYPE LEU SPIN_SYSTEM_ID 63 HETEROGENEITY 100 N 120.208000 HN 8.856000 CA 58.470000 HA 4.691000 CB 42.621000 HB1 2.295000	RES_ID 782 RES_TYPE TYR SPIN_SYSTEM_ID 68 HETEROGENEITY 100 N 114.633000 HN 8.014000 CA 57.920000 HA 4.528000 CB 36.443000 HB1 3.062000 HB2 2.907000 CD1 133.248000 HD1 7.175000 CCI 120.582000	HETEROGENEITY 100 N 118.732000 HN 6.928000 CA 60.676000 HA 3.763000 CB 39.750000 HB1 2.945000 HB2 2.381000 CD1 133.799000 HD1 6.400000 CE1 131.596000 HE1 6.928000 END_RES_DEF
END_RES_DEF RES_ID 771 RES_TYPE LYS SPIN_SYSTEM_ID 57 HETEROGENSITY 100 N 128.079000 HN 8.738000 CA 60.676000 HA 4.198000 CB 32.037000 HB1 2.330000 HB2 2.224000 CG 25.280000 HG1 1.483000 HG2 1.403000 CD 30.385000 HD1 1.793000 HD1 1.793000 HD2 1.696000	CG 29.284000 HG1 1.722000 HG2 0.877000 CD 44.154000 HD1 2.578000 HD2 2.051000 END_RES_DEF RES_ID 777 RES_TYPE LEU SPIN_SYSTEM_ID 63 HETERGGENEITY 100 N 120.208000 HN 8.856000 CA 58.470000 HA 4.691000 CB 42.621000 HB1 2.295000 HB2 1.925000	RES_ID 782 RES_TYPE TYR SPIN_SYSTEM_ID 68 HETEROGENEITY 100 N 114.633000 HN 8.014000 CA 57.920000 HA 4.528000 CB 36.443000 HB1 3.062000 HB2 2.907000 CD1 133.248000 HD1 7.175000 CCI 120.582000 HE1 7.286000 END_RES_DEF	HETERGGENEITY 100 N 118.732000 HN 6.928000 CA 60.676000 HA 3.763000 CB 39.750000 HB1 2.945000 HB2 2.381000 CD1 133.799000 HD1 6.400000 CE1 131.596000 HE1 6.928000 END_RES_DEF
END_RES_DEF RES_ID 771 RES_TYPE LYS SPIN_SYSTEM_ID 57 HETEROGENEITY 100 HN 8.738000 CA 60.676000 HA 4.198000 CB 32.037000 HB1 2.330000 HB2 2.224000 CG 25.280000 HG1 1.483000 CD 30.385000 HG1 1.793000 CD 30.385000 HD1 1.793000 CD 41.950000 CC 41.950000	CG 29.284000 HG1 1.722000 HG2 0.877000 CD 44.154000 HD1 2.578000 HD2 2.051000 END_RES_DEF RES_ID 777 RES_TYPE LEU SPIN_SYSTEM_ID 63 HETEROGENEITY 100 N 120.208000 HN 8.856000 CA 58.470000 CA 58.470000 CB 42.621000 HB1 2.295000 CG 27.080000 CG 27.080000	RES_ID 782 RES_TYPE TYR SPIN_SYSTEM_ID 68 HETERGGENEITY 100 N 114.633000 HN 8.014000 CA 57.920000 HA 4.528000 CB 36.443000 HB1 3.062000 HB1 3.062000 HB2 2.907000 CD1 133.248000 HD1 7.175000 CE1 120.582000 HE1 7.286000 END_RES_DEF	HETEROGENEITY 100 N 118.732000 HN 6.28000 CA 60.676000 HA 3.763000 CB 39.750000 HB1 2.945000 HB2 2.381000 CD1 133.799000 HD1 6.400000 CE1 131.596000 HE1 6.928000 END_RES_DEF RES_ID 789 RES_TYPE MET
END_RES_DEF RES_ID 771 RES_TYPE LYS SPIN_SYSTEM_ID 57 HETEROGENSITY 100 N 128.079000 HN 8.738000 CA 60.676000 HA 4.198000 CB 32.037000 HB1 2.330000 HB2 2.224000 CG 25.280000 HG1 1.483000 HG2 1.403000 CD 30.385000 HD1 1.793000 HD1 1.793000 HD2 1.696000	CG 29.284000 HG1 1.722000 HG2 0.877000 CD 44.154000 HD1 2.578000 HD2 2.051000 END_RES_DEF RES_ID 777 RES_TYPE LEU SPIN_SYSTEM_ID 63 HETERGGENEITY 100 N 120.208000 HN 8.856000 CA 58.470000 HA 4.691000 CB 42.621000 HB1 2.295000 HB2 1.925000	RES_ID 782 RES_TYPE TYR SPIN_SYSTEM_ID 68 HETEROGENEITY 100 N 114.633000 HN 8.014000 CA 57.920000 HA 4.528000 CB 36.443000 HB1 3.062000 HB2 2.907000 CD1 133.248000 HD1 7.175000 CCI 120.582000 HE1 7.286000 END_RES_DEF	HETEROGENEITY 100 N 118.732000 HN 6.28000 CA 60.676000 HA 3.763000 CB 39.750000 HB1 2.945000 HB2 2.381000 CD1 133.799000 HD1 6.400000 CE1 131.596000 HE1 6.928000 END_RES_DEF RES_ID 789 RES_TYPE MET SPIN_SYSTEM_ID 75

HN 8.489000			
HN 8.489000	HETEROGENEITY 100	HETEROGENEITY 100	
CA 59.020000	N 117.912000	N 117.912000	SPIN_SYSTEM_ID 94
HA 3.911000	HN 7.013000	HN 7.945000	HETEROGENEITY 100 N 123.488000
CB 32 590000	CA 66.730000	CA 57.992000	HN 9.061000
HB1 2.318000	HA 3.039000	HA 4.250000	CA 59.574000
HB2 2.208000 CG 33.140000	CB 30.930000	CB 30.385000	HA 4-232000
HG1 2.942000	HB 1.435000	HB1 2.172000	CB 29.835000
HG2 2.611000	CG1 22.124000 HG1# 0.479000	HB2 2.003000	HB1 2.169000
CE 17.168000	CG2 21.573000	CG 36.994000 HG1 2.407000	CG 36.443000
HE# 2.027000	HG2# 0.142000	HG2 2.203000	HG1 2.528000
END_RES_DEF	END_RES_DEF	END_RES_DEF	END_RES_DEF
			RES_ID 809
RES_ID 790	RES_ID 796	RES_ID 802	RES_TYPE TYR
RES_TYPE ALA SPIN SYSTEM ID 76	RES_TYPE PHE	RES_TYPE TYR	SPIN SYSTEM ID 95
SPIN_SYSTEM_ID 76 HETEROGENEITY 100	SPIN_SYSTEM_ID 82	SPIN_SYSTEM_ID 88	HETEROGENEITY 100
N 119.716000	HETEROGENEITY 100	HETEROGENEITY 100	N 116.436000
HN 8.000000	N 116.928000 HN 6.357000	N 116.600000 HN 7.744000	HN 8.072000
CA 55.170000	CA 58.470000	CA 60.676000	CA 60.120000
HA 4.084000	HA 4.161000	HA 4.369000	HA 3.834000 CB 37.550000
CB 18.270000	CB 38.096000	CB 41.400000	CB 37.550000 HB1 3.018000
HB# 1.485000	HB1 3.090000	HB1 2.929000	HB2 2.738000
END_RES_DEF	HB2 2.944000	CD1 134.901000	CD1 132.698000
RES ID 791	CD1 132.147000	HD1 6.989000	HD1 6.891000
RES TYPE ASP	HD1 6.641000 CE1 131.596000	CE1 119.481000	CE1 120.032000
SPIN SYSTEM ID 77	HE1 6.456000	HE1 6.823000	HE1 7.011000
HETEROGENEITY 100	CZ 129.393000	END_RES_DEF	END_RES_DEF
N 119.716000	HZ 6.406000	RES_ID 803	BEG TO COA
HN 7.376000	END_RES_DEF	RES TYPE ASN	RES_ID 810 RES_TYPE TYR
CA 57.371000		SPIN_SYSTEM ID 89	SPIN SYSTEM ID 96
HA 4.371000	RES_ID 797	HETEROGENEITY 100	HETEROGENEITY 100
CB 38.646000 HB1 2.730000	RES_TYPE THR	N 115.944000	N 119.880000
END_RES_DEF	SPIN_SYSTEM_ID 83	HN 8.241000	HN 7.356000
2.10_1.20_021	HETEROGENEITY 100 N 115.289000	CA 51.864000	CA 61.777000
RES_ID 792	HN 9.047000	HA 5.024000 CB 40.849000	HA 3.819000
RES_TYPE LEU	CA 66.734000	CB 40.849000 HB1 3.069000	CB 40.300000
SPIN_SYSTEM_ID 78	HA 3.838000	HB2 2.907000	HB1 3.390000 HB2 2.500000
HETEROGENEITY 100	CB 68.380000	ND2 118.732000	HB2 2.500000 CD1 136.553000
N 119.550000	HB 4.210000	HD21 8.316000	HD1 7.094000
HN 7.363000 CA 57.922000	CG2 22.120000	HD22 7.809000	CE1 119.481000
HA 3.398000	HG2# 1.296000 END_RES_DEF	END_RES_DEF	HE1 7.000000
CB 40.299000	THIS _KES_DEF	DEC ID	END_RES_DEF
HB1 0.757000	RES_ID 798	RES_ID 804 RES_TYPE ALA	700 17
HB2 0.442000	RES_TYPE ASN	SPIN_SYSTEM ID 90	RES_ID 811 RES_TYPE LYS
	An -11 -11 -11 -1		KE9_11PE LIS
CG 27.632000	SPIN_SYSTEM_ID 84	HETEROGENEITY 100	SDIN SYSTEM ID 97
HG 0.707000	HETEROGENEITY 100	HETEROGENEITY 100 END_RES_DEF	SPIN_SYSTEM_ID 97 HETEROGENEITY 100
HG 0.707000 CD1 24.327000	HETEROGENEITY 100 N 120.700000	END_RES_DEF	HETEROGENEITY 100
HG 0.707000 CD1 24.327000 HD1# 0.184000	HETEROGENEITY 100 N 120.700000 HN 8.846000	END_RES_DEF RES_ID 805	HETEROGENEITY 100 N 118.076000 HN 8.072000
HG 0.707000 CD1 24.327000	HETEROGENEITY 100 N 120.700000 HN 8.846000 CA 55.170000	END_RES_DEF RES_ID 805 RES_TYPE PRO	HETEROGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000	HETEROGENEITY 100 N 120.70000 HN 8.846000 CA 55.170000 HA 4.315000	END_RES_DEF RES_ID 805 RES_TYPE PRO SPIN_SYSTEM_ID 91	HETEROGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF	HETEROGENEITY 100 N 120.700000 HN 8.846000 CA 55.170000 HA 4.315000	END_RES_DEF RES_ID 805 RES_TYPE PRO SPIN_SYSTEM_ID 91 HETERGGENEITY 100	HETEROGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF	HETEROGENEITY 100 N 120.700000 HN 8.846000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000 HB2 2.661000	END_RES_DEF RES_ID 805 RES_TYPE PRO SPIN_SYSTEM_ID 91	HETEROGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000 HB1 2.091000
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF RES_ID 793 RES_TYPE GLN	HETEROGENEITY 100 N 120.700000 HN 8.846000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000	END_RES_DEF RES_ID 805 RES_TYPE PRO SPIN_SYSTEM_ID 91 HETEROGENEITY 100 CA 63.980000	HETEROGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF RES_ID 793 RES_TYPE GLN SPIN_SYSTEM_ID 79	HETEROGENEITY 100 N 120.700000 HN 8.846000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000 HB2 2.661000 END_RES_DEF	END_RES_DEF RES_ID 805 RES_TYPE PRO SPIN_SYSTEM_ID 91 HETERGGENEITY 100 CA 63.980000 HA 2.422000 HB1 1.949000 HG1 1.648000	HETEROGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000 HB1 2.091000 CG 25.979000
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF RES_ID 793 RES_TYPE GLN SPIN_SYSTEM_ID 79 HETEROGENEITY 100	HETEROGENEITY 100 N 120.700000 HN 8.846000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000 HB2 2.661000 END_RES_DEF RES_ID 799	END_RES_DEF RES_ID 805 RES_TYPE PRO SPIN_SYSTEM_ID 91 HETEROGENEITY 100 CA 63.980000 HA 2.422000 HB1 1.949000 HG1 1.648000 HG2 1.558000	HETEROGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000 HB1 2.091000 CG 25.979000 HG1 1.619000
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF RES_ID 793 RES_TYPE GLN SPIN_SYSTEM_ID 79	HETEROGENETTY 100 N 120.70000 HN 8.846000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000 HB2 2.661000 END_RES_DEF RES_ID 799 RES_TYPE CYS	END_RES_DEF RES_ID 805 RES_TYPE PRO SPIN_SYSTEM_ID 91 HETEROGENEITY 100 CA 63.980000 HA 2.422000 HB1 1.949000 HG1 1.648000 HG2 1.558000 CD 50.762000	HETEROGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000 HB1 2.091000 CG 25.979000 HG1 1.819000 HG2 1.582000 CD 29.834000 HD1 1.813000
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF RES_ID 793 RES_TYPE GLN SPIN_SYSTEM_ID 79 HETEROGENEITY 100 N 114.141000 HN 8.069000 CA 59.024000	HETEROGENEITY 100 N 120.700000 HN 8.846000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000 HB2 2.661000 END_RES_DEF RES_ID 799	END_RES_DEF RES_ID 805 RES_TYPE PRO SPIN_SYSTEM_ID 91 HETERGGENEITY 100 CA 63.980000 HA 2.422000 HB1 1.949000 HG1 1.648000 HG2 1.558000 CD 50.762000 HD2 3.601000	HETEROGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000 HB1 2.091000 CG 25.979000 HG1 1.819000 HG2 1.582000 CD 29.834000 HD1 1.813000 CE 41.963000
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF RES_ID 793 RES_TYPE GLN SPIN_SYSTEM_ID 79 HETEROGENEITY 100 N 114.141000 HN 8.069000 CA 59.024000 HA 3.804000	HETEROGENEITY 100 N 120.700000 HN 8.46000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000 HB2 2.661000 END_RES_DEF RES_ID 799 RES_TYPE CYS SPIN_SYSTEM_ID 85	END_RES_DEF RES_ID 805 RES_TYPE PRO SPIN_SYSTEM_ID 91 HETEROGENEITY 100 CA 63.980000 HA 2.422000 HB1 1.949000 HG1 1.648000 HG2 1.558000 CD 50.762000 HD2 3.601000 HD1 3.706000	HETEROGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000 HB1 2.091000 CG 25.979000 HG1 1.819000 HG2 1.582000 CD 29.834000 HD1 1.813000 CE 41.963000 HE1 2.962000
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF RES_ID 793 RES_TYPE GLN SPIN_SYSTEM_ID 79 HETEROGENEITY 100 N 114.141000 HN 8.069000 CA 59.024000 HA 3.804000 CB 28.733000	HETEROGENEITY 100 N 120.700000 HN 8.446000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000 HB2 2.661000 END_RES_DEF RES_ID 799 RES_TYPE CYS SPIN_SYSTEM_ID 85 HETEROGENEITY 100 N 116.928000 HN 6.893000	END_RES_DEF RES_ID 805 RES_TYPE PRO SPIN_SYSTEM_ID 91 HETERGGENEITY 100 CA 63.980000 HA 2.422000 HB1 1.949000 HG1 1.648000 HG2 1.558000 CD 50.762000 HD2 3.601000	HETEROGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000 HB1 2.091000 CG 25.979000 HG1 1.819000 HG2 1.582000 CD 29.834000 HD1 1.813000 CE 41.963000
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF RES_ID 793 RES_TYPE GLN SPIN_SYSTEM_ID 79 HETEROGENEITY 100 N 114.141000 HN 8.069000 CA 59.024000 HA 3.804000 CB 28.733000 HB1 2.157000	HETEROGENEITY 100 N 120.700000 HN 8.846000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000 HB2 2.661000 END_RES_DEF RES_ID 799 RES_TYPE CYS SPIN_SYSTEM_ID 85 HETEROGENEITY 100 N 116.928000 HN 6.893000 CA 62.157000	END_RES_DEF RES_ID 805 RES_TYPE PRO SPIN_SYSTEM_ID 91 HETEROGENEITY 100 CA 63.980000 HA 2.422000 HB1 1.949000 HG1 1.648000 HG2 1.558000 CD 50.762000 HD2 3.601000 HD1 3.706000	HETEROGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000 HB1 2.091000 CG 25.979000 HG1 1.819000 HG2 1.582000 CD 29.834000 HD1 1.813000 CE 41.963000 HE1 2.962000 END_RES_DEF
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF RES_ID 793 RES_TYPE GLN SPIN_SYSTEM_ID 79 HETEROGENEITY 100 N 114.141000 HN 8.069000 CA 59.024000 HA 3.804000 CB 28.733000 HB1 2.157000 HB2 2.097000	HETEROGENEITY 100 N 120.70000 HN 8.846000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000 HB2 2.661000 END_RES_DEF RES_ID 799 RES_TYPE CYS SPIN_SYSTEM_ID 85 HETEROGENEITY 100 N 116.928000 HN 6.893000 CA 62.157000 HA 4.405000	END_RES_DEF RES_ID	HETEROGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000 HB1 2.091000 CG 25.979000 HG1 1.619000 HG2 1.582000 CD 29.834000 HD1 1.813000 CE 41.963000 HE1 2.962000 END_RES_DEF RES_ID 812 RES_TYPE CYS
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF RES_ID 793 RES_TYPE GLN SPIN_SYSTEM_ID 79 HETEROGENEITY 100 N 114.141000 HN 8.069000 CA 59.024000 HA 3.804000 CB 28.733000 HB1 2.157000 HB2 2.097000 CG 35.342000	HETEROGENEITY 100 N 120.700000 HN 8.46000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000 HB2 2.661000 END_RES_DEF RES_ID 799 RES_TYPE CYS SPIN_SYSTEM_ID 85 HETEROGENEITY 100 N 116.928000 HN 6.893000 CA 62.157000 HA 4.405000 CB 26.530000	END_RES_DEF RES_ID 805 RES_TYPE PRO SPIN_SYSTEM_ID 91 HETEROGENBITY 100 CA 63.980000 HA 2.422000 HB1 1.949000 HG2 1.558000 CD 50.762000 HD2 3.601000 HD1 3.706000 END_RES_DEF RES_ID 806 RES_TYPE GLU SPIN_SYSTEM_ID 92	HETEROGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000 HB1 2.091000 CG 25.979000 HG1 1.819000 HG2 1.582000 CD 29.834000 HD1 1.813000 CE 41.963000 HE1 2.962000 END_RES_DEF
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF RES_ID 793 RES_TYPE GLN SPIN_SYSTEM_ID 79 HETEROGENEITY 100 N 114.141000 HN 8.069000 CA 59.024000 HA 3.804000 CB 28.733000 HB1 2.157000 HB2 2.097000	HETEROGENEITY 100 N 120.700000 HN 8.846000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000 HB2 2.661000 END_RES_DEF RES_ID 799 RES_TYPE CYS SPIN_SYSTEM_ID 85 HETEROGENEITY 100 N 116.928000 HN 6.893000 CA 62.157000 HA 4.405000 CE 26.530000 HB1 3.304000	END_RES_DEF RES_ID 805 RES_TYPE PRO SPIN_SYSTEM_ID 91 HETEROGENEITY 100 CA 63.980000 HA 2.422000 HB1 1.949000 HG1 1.648000 HG2 1.558000 CD 50.762000 HD2 3.601000 HD1 3.706000 END_RES_DEF RES_ID 806 RES_TYPE GLU SPIN_SYSTEM_ID 92 HETEROGENEITY 100	HETEROGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000 HB1 2.091000 CG 25.979000 HG1 1.819000 CD 29.834000 HD1 1.813000 CE 41.963000 HE1 2.962000 END_RES_DEF RES_ID 812 RES_TYPE CYS SPIN SYSTEM_ID 98 HETEROGENEITY 100
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF RES_ID 793 RES_TYPE GLN SPIN_SYSTEM_ID 79 HETEROGENEITY 100 N 114.141000 HN 8.069000 CA 59.024000 HA 3.804000 CB 28.7333000 HB1 2.157000 HB2 2.097000 CG 35.342000 HG1 2.460000 NE2 111.353000 HE21 7.319000	HETEROGENEITY 100 N 120.700000 HN 8.46000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000 HB2 2.661000 END_RES_DEF RES_ID 799 RES_TYPE CYS SPIN_SYSTEM_ID 85 HETEROGENEITY 100 N 116.928000 HN 6.893000 CA 62.157000 HA 4.405000 CB 26.530000	END_RES_DEF RES_ID	HETEROGENEITY 100 N 118.070000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000 HB1 2.091000 CG 25.979000 HG1 1.819000 HG2 1.582000 CD 29.834000 HD1 1.813000 CE 41.963000 HE1 2.962000 EMD_RES_DEF RES_ID 812 RES_TYPE CYS SPIN SYSTEM_ID 98 HETEROGENEITY 100 N 116.764000
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF RES_ID 793 RES_TYPE GLN SPIN_SYSTEM_ID 79 HETEROGENEITY 100 N 114.141000 HN 8.069000 CA 59.024000 HA 3.804000 CB 28.7333000 HB1 2.157000 HB2 2.0970000 CG 35.342000 HG1 2.460000 NE2 111.353000 HE21 7.319000 HE21 7.319000 HE22 7.222000	HETEROGENETTY 100 N 120.70000 HN 8.846000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000 HB2 2.661000 END_RES_DEF RES_ID 799 RES_TYPE CYS SPIN_SYSTEM_ID 85 HETEROGENEITY 100 N 116.928000 HN 6.893000 CA 62.157000 HA 4.405000 CB 26.530000 HB1 3.304000 HB1 3.304000	END_RES_DEF RES_ID 805 RES_TYPE PRO SPIN_SYSTEM_ID 91 HETEROGENBITY 100 CA 63.980000 HA 2.422000 HB1 1.949000 HG2 1.558000 CD 50.762000 HD2 3.601000 HD1 3.706000 END_RES_DEF RES_ID 806 RES_TYPE GLU SPIN_SYSTEM_ID 92 HETEROGENEITY 100 N 112.993000 HN 8.246000	HETEROGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000 HB1 2.091000 CG 25.979000 HG1 1.819000 HG2 1.582000 CD 29.834000 HD1 1.813000 CE 41.963000 HE1 2.962000 END_RES_DEF RES_ID 812 RES_TYPE CYS SPIN_SYSTEM_ID 98 HETEROGENEITY 100 N 116.764000 HN 8.520000
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF RES_ID 793 RES_TYPE GLN SPIN_SYSTEM_ID 79 HETEROGENEITY 100 N 114.141000 HN 8.069000 CA 59.024000 HA 3.804000 CB 28.7333000 HB1 2.157000 HB2 2.097000 CG 35.342000 HG1 2.460000 NE2 111.353000 HE21 7.319000	HETEROGENEITY 100 N 120.700000 HN 8.846000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000 HB2 2.661000 END_RES_DEF RES_ID 799 RES_TYPE CYS SPIN_SYSTEM_ID 85 HETEROGENEITY 100 N 116.923000 HN 6.893000 CA 62.157000 HA 4.405000 CB 26.530000 HB1 3.304000 HB2 3.032000 END_RES_DEF	END_RES_DEF RES_ID	HETEROGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000 HB1 2.091000 CG 25.979000 HG1 1.819000 CD 29.834000 HD1 1.813000 CE 41.963000 HE1 2.962000 END_RES_DEF RES_ID 812 RES_TYPE CYS SPIN_SYSTEM_ID 98 HETEROGENEITY 100 N 116.764000 HN 8.520000 CA 65.087000
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF RES_ID 793 RES_TYPE GLN SPIN_SYSTEM_ID 79 HETEROGENEITY 100 N 114.141000 HN 8.069000 CA 59.024000 HA 3.804000 CB 28.733000 HB1 2.157000 HB2 2.097000 CG 35.342000 HG1 2.460000 NE2 111.353000 HE21 7.319000 HE22 7.222000 END_RES_DEF	HETEROGENEITY 100 N 120.700000 HN 8.846000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000 HB2 2.661000 END_RES_DEF RES_ID 799 RES_TYPE CYS SPIN_SYSTEM_ID 85 HETEROGENEITY 100 N 116.928000 HN 6.893000 CA 62.157000 HA 4.405000 CB 26.530000 HB1 3.304000 HB2 3.0320000 END_RES_DEF	END_RES_DEF RES_ID 805 RES_TYPE PRO SPIN_SYSTEM_ID 91 HETEROGENEITY 100 CA 63.980000 HA 2.422000 HB1 1.949000 HG2 1.558000 CD 50.762000 HD2 3.601000 HD1 3.706000 END_RES_DEF RES_ID 806 RES_TYPE GLU SPIN_SYSTEM_ID 92 HETEROGENEITY 100 N 112.993000 HN 8.246000 CA 56.820000 HA 4.185000 CB 28.733000 CB 28.733000	HETEROGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000 HB1 2.091000 CG 25.979000 HG1 1.819000 CG 25.979000 HG2 1.582000 CD 29.834000 HD1 1.813000 CE 41.963000 HE1 2.962000 END_RES_DEF RES_ID 812 RES_TYPE CYS SPIN SYSTEM_ID 98 HETEROGENEITY 100 N 116.764000 HN 8.520000 CA 65.087000 HA 4.202000
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF RES_ID 793 RES_TYPE GLN SPIN_SYSTEM_ID 79 HETEROGENEITY 100 N 114.141000 HN 8.069000 CA 55.0224000 HA 3.804000 CB 28.733000 HB1 2.157000 HB2 2.097000 CG 35.342000 HG1 2.46000 NE2 111.353000 HE21 7.319000 HE22 7.222000 END_RES_DEF RES_ID 794	HETEROGENETTY 100 N 120.700000 HN 8.846000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000 HB1 2.985000 END_RES_DEF RES_ID 799 RES_TYPE CYS SPIN_SYSTEM_ID 85 HBTEROGENETTY 100 N 116.928000 HN 6.893000 CA 62.157000 HA 4.405000 CB 26.530000 HB1 3.034000 HB1 3.034000 HB1 3.032000 END_RES_DEF RES_ID 800 RES_TYPE LYS SPIN_SYSTEM_ID 86	END_RES_DEF RES_ID	HETEROGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000 HB1 2.091000 CG 25.979000 HG1 1.819000 CD 29.834000 HD1 1.813000 CE 41.963000 HE1 2.962000 END_RES_DEF RES_ID 812 RES_TYPE CYS SPIN_SYSTEM_ID 98 HETEROGENEITY 100 N 116.764000 HN 8.520000 CA 65.087000
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF RES_ID 793 RES_TYPE GLN SPIN_SYSTEM_ID 79 HETEROGENEITY 100 N 114.141000 HN 8.069000 CA 59.024000 HA 3.804000 CB 28.733000 HB1 2.157000 HB2 2.097000 CG 35.342000 HG1 2.460000 NE2 111.353000 HE21 7.319000 HE22 7.222000 END_RES_DEF	HETEROGENETTY 100 N 120.700000 HN 8.846000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000 HB2 2.661000 END_RES_DEF RES_ID 799 RES_TYPE CYS SPIN_SYSTEM_ID 85 HETEROGENEITY 100 N 116.923000 HN 6.893000 CA 62.157000 HA 4.405000 CB 26.530000 HB1 3.304000 HB2 3.032000 END_RES_DEF RES_ID 800 RES_TYPE LYS SPIN_SYSTEM_ID 86 HETEROGENEITY 100	END_RES_DEF RES_ID	HETEROGENEITY 100 N 118.072000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000 HB1 2.091000 CG 25.979000 HG1 1.819000 CG 25.979000 HG2 1.582000 CD 29.834000 HD1 1.813000 CE 41.963000 HE1 2.962000 END_RES_DEF RES_ID 812 RES_TYPE CYS SPIN SYSTEM_ID 98 HETEROGENEITY 100 N 116.764000 HN 8.520000 CA 65.087000 HA 4.202000 CB 27.080000 HB1 3.396000 HB1 3.396000
HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF RES_ID 793 RES_TYPE GLN SPIN_SYSTEM_ID 79 HETEROGENEITY 100 N 114.141000 HN 8.069000 CA 55.0224000 HA 3.804000 CB 28.733000 HB1 2.157000 HB2 2.097000 CG 35.342000 HG1 2.46000 NE2 111.353000 HE21 7.319000 HE22 7.222000 END_RES_DEF RES_ID 794 RES_TYPE ARG SPIN_SYSTEM_ID 80 HETEROGENEITY 100	HETEROGENEITY 100 N 120.700000 HN 8.846000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000 HB2 2.661000 END_RES_DEF RES_ID 799 RES_TYPE CYS SPIN_SYSTEM_ID 85 HETEROGENEITY 100 N 116.928000 HA 6.893000 CA 62.157000 HA 4.405000 CB 26.530000 HB1 3.304000 HB2 3.032000 END_RES_DEF RES_ID 800 RES_TYPE LYS SPIN_SYSTEM_ID 86 HETEROGENEITY 100 RES_TYPE LYS SPIN_SYSTEM_ID 86 HETEROGENEITY 100 N 116.764000	END_RES_DEF RES_ID 805 RES_TYPE PRO SPIN_SYSTEM_ID 91 HETEROGENEITY 100 CA 63.980000 HA 2.422000 HB1 1.949000 HG1 1.648000 HG2 1.558000 CD 50.762000 HD2 3.601000 HD1 3.706000 END_RES_DEF RES_ID 806 RES_TYPE GLU SPIN_SYSTEM_ID 92 HETEROGENEITY 100 N 112.993000 HN 8.246000 CA 56.820000 HA 4.185000 CB 28.733000 HB1 2.095000 HB2 1.973000 CG 36.270000	HETEROCENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000 HB1 2.091000 CG 25.979000 HG1 1.619000 HG2 1.582000 CD 29.834000 HD1 1.813000 CE 41.963000 HE1 2.962000 END_RES_DEF RES_ID 812 RES_TYPE CYS SPIN_SYSTEM_ID 98 HETEROGENEITY 100 N 116.764000 HN 8.520000 CA 65.087000 HA 4.202000 CB 27.0800000 HB1 3.396000
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HG 0.707000 CD1 24.327000 HD1# 0.184000 CD2 25.979000 HD2# 0.061000 END_RES_DEF RES_ID 793 RES_TYPE GLN SPIN_SYSTEM_ID 79 HETEROGENEITY 100 N 114.141000 HN 8.069000 CA 59.024000 HA 3.804000 CB 28.733000 HB1 2.157000 HB2 2.0977000 CC 35.342000 HG1 2.460000 NE2 111.353000 HE21 7.319000 HE22 7.222000 END_RES_DEF RES_ID 794 RES_TYPE ARG SPIN_SYSTEM_ID 80 HETEROGENEITY 100 N 118.568000 HN 7.382000 CA 58.473000 HB 1.973000 HB 1.3390000 HD 3.3325000 END_RES_DEF RES_ID 795 RES_ID 795 RES_ID 795	HETEROGENEITY 100 N 120.700000 HN 8.846000 CA 55.170000 HA 4.315000 CB 38.090000 HB1 2.985000 HB1 2.985000 HB1 2.985000 END_RES_DEF RES_ID 799 RES_TYPE CYS SPIN_SYSTEM_ID 85 HETEROGENEITY 100 N 116.928000 HN 6.893000 CA 62.157000 HA 4.405000 CB 26.530000 HB1 3.304000 HB2 3.032000 END_RES_DEF RES_ID 800 RES_TYPE LYS SPIN_SYSTEM_ID 86 HETEROGENEITY 100 N 116.764000 HN 7.799000 CA 58.473000 HA 4.204000 CB 32.588000 HB1 1.743000 CG 25.429000 HG1 1.313000 HG2 0.138000 CD 29.835000 HD1 1.291000 CE 41.400000 CE 41.400000 CE 41.400000 CHD_RES_DEF	END_RES_DEF RES_ID	HETERCGENEITY 100 N 118.076000 HN 8.072000 CA 60.676000 HA 4.204000 CB 32.588000 HB1 2.091000 CG 25.979000 HG1 1.619000 HG2 1.582000 CD 29.834000 HD1 1.813000 CE 41.963000 HE1 2.962000 END_RES_DEF RES_ID 812 RES_TYPE CYS SPIN_SYSTEM_ID 98 HETERCGENEITY 100 N 116.764000 HN 8.520000 CA 65.087000 HA 4.202000 CB 27.080000 HB1 3.396000 HB2 3.056000 END_RES_DEF RES_ID 813 RES_TYPE 344 SPIN_SYSTEM_ID 99 HETERCGENEITY 100 HN 8.315000 CA 55.563000 HN 8.315000 CA 55.563000 HA 8.315000 CA 55.563000 HA 8.315000 CB 18.270000 HB# 1.597000 END_RES_DEF
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HN 8.068000 CA 56.27000 HA 4.329000 CB 38.64600 HB1 2.87700 HB2 2.83400 END_RES_DEF	0 0 0	RES_ID RES_TYPE SPIN_SYSTEM_ID HETEROGENEITY N 120.700000 HN 9.126000 CA 60.691000 HA 3.961000	100	HB1 1.879000 HB2 1.757000 CG 24.878000 HG1 1.390000 HG2 1.302000 CD 29.284000 HD1 1.633000 CE 41.400000
RES_TYPE SPIN_SYSTEM_ID HETEROGENEITY N 119.88000	ILE 101 100	CB 38.640000 HB1 3.289000 HB2 3.067000 CD1 133.2480 HD1 6.904000)))00	HE1 2.913000 END_RES_DEF RES_ID 826 RES_TYPE GLU
HN 7.912000 CA 65.08000 HA 3.646000 CB 39.19700 HB 1.924000	0	CE1 132.6980 HE1 7.011000 END_RES_DEF)	SPIN_SYSTEM_ID 112 HETEROGENEITY 100 N 121.192000 HN 8.063000
CG1 29.2840 HG11 1.8820 HG12 1.2010 CG2 17.7180 HG2# 1.0170 CD1 13.8630 HD1# 0.9400 END_RES_DEF	00 00 00 00 00 00	RES_ID RES_TYPE SPIN_SYSTEM_ID HETEROGENEITY N 118.076000 HN 8.359000 CA 61.770000 HA 3.840000 CB 38.090000	100	CA 59.024000 HA 3.995000 CB 29.834000 HB1 2.058000 CG 36.050000 HG1 2.342000 HG2 2.205000 END_RES_DEF
RES_ID RES_TYPE SPIN_SYSTEM_ID HETEROGENEITY N 122.504000 HN 8.556000 CA 56.820000 HA 3.670000 CB 41.951000	100	HB1 3.064000 CD1 133.2480 HD1 7.175000 CE1 132.6980 HE1 7.294000 CZ 131.59600 HZ 7.430000 END_RES_DEP	00 00 0 822	RES_ID 827 RES_TYPE ALA SPIN_SYSTEM_ID 113 HETEROGENEITY 100 N 117.748000 HN 7.620000 CA 52.410000 HA 4.291000 CB 19.920000 HB# 1.358000
HB1 1.40500C HB2 1.19900C CG 26.530000 HG 1.580000 CD1 24.3270C HD1# 0.70100 CD2 25.42900 HD2# 0.69600 END_RES_DEF	0	RES TYPE SPIN_SYSTEM_ID HETERGGENEITY N 114.961000 HN 7.906000 CA 61.773000 HA 4.200000 CB 62.879000 HB 4.007000 END RES DEF	100	END_RES_DEF RES_ID 828 RES_TYPE GLY SPIN_SYSTEM_ID 114 HETEROGENEITY 100 N 126.767000 HN 7.744000 CA 45.902000
RES_ID RES_TYPE SPIN_SYSTEM_ID HETEROGENEITY	817 GLU 103 100	RES_ID RES_TYPE	823 LYS	HA1 4.019000 HA2 3.935000 END_RES_DEF
N 120.700000 HN 8.073000 CA 60.125000 HA 3.185000 CB 29.835000 HB1 1.720000 CG 37.545000 HG1 2.001000 HG2 1.922000 END_RES_DEF RES_ID	818	SPIN SYSTEM ID HETEROGENEITY N 120.864000 HN 7.938000 CA 56.820000 HA 4.008000 CB 31.487000 HB1 1.730000 CG 23.226000 HG1 0.833000 CD 27.080000 HD1 1.403000 CC 42.501000	100	RES_ID 829 RES_TYPE LEU SPIN_SYSTEM_ID 115 HETEROGENEITY 100 N 117.912000 CA 55.719000 HA 4.215000 CB 43.052000 HB1 1.562000 CG 27.632000 HG 1.536000 CD1 23.776000 HD1# 0.711000
RES_TYPE SPIN_SYSTEM_ID HETEROGENEITY N 117.584000	LYS 104 100	HE1 2.569000 HE2 2.422000 END_RES_DEF		END_RES_DEF RES_ID 830 RES_TYPE ILE
HN 7.145000 CA 59.688000 HA 4.075000 CB 32.588000 HB1 1.929000 CG 25.644000 HG1 1.492000 CD 29.284000 HD1 1.681000 CE 41.963000 HB1 2.964000 END_RES_DEF		RES_TYPE SPIN_SYSTEM_ID HETEROGENEITY N 116.928000 HN 8.101000 CA 64.530000 HA 3.818000 CB 36.990000 CB 1.746000 CG1 26.530000 HG11 1.140000 HG12 1.073000	824 ILE 110 100	SPIN SYSTEM ID 116 HETEROGENEITY 100 N 115.453000 CA 60.676000 HA 4.232000 CB 39.748000 HB 1.810000 CG1 27.080000 HG11 1.314000 HG12 0.918000 CG2 17.718000 HG2# 0.815000
RES_TYPE SPIN_SYSTEM_ID	819 PHE 105 100	CG2 18.820000 HG2# 0.654000 CD1 13.312000 HD1# 0.541000		CD1 13.312000 HD1# 0.794000 END_RES_DEF
HN 7.869000 CA 61.230000 HA 4.328000 CB 39.200000 HB1 3.133000 HB2 3.047000 CD1 133.80000 HD1 7.180000 END_RES_DEF	0	RES_TYPE :	825 LYS 111 100	RES_ID 831 RES_TYPE ASP SPIN_SYSTEM_ID 117 HETEROGENEITY 100 N 123.488000 HN 8.270000 CA 54.620000 HA 4.571000 CB 41.400000 HB1 2.693000 HB2 2.540000
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END_RES_DEF RES_ID 832
RES_TYPE LYS
SPIN_SYSTEM_ID 118
HETEROGENEITY 100
N 125.450000
HN 7.7774000
CA 57.720000
HA 4.082000
CB 33.410000
END_RES_DEF

Unambiguous NOE-derived Inter-proton Distance Restraints

(eggid "EDC " and read 8 and name (DR)) (eggid "EDC " and read 9 and name (DR)) (eggid "EDC " and read 9 and name (DR)) (eggid "EDC " and read 9 and name (DR)) (eggid "EDC " and read 9 and name (DR)) (eggid "EDC " and read 9 and name (DR)) (eggid "EDC " and read 9 and name (DR)) (eggid "EDC " and read 4 and name (DR)) (eggid "EDC " and read 4 and name (DR)) (eggid "EDC " and read 4 and name (R)) (eggid "EDC " and re	7 704	7.624	7 624	7 960	3 532		3 143		5.544	1 689		4.900	5 053		2 899	2 790	2.208	4 441	9 112	4 811	
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"BID and read as and name HN)] "BID and read as and name HD)] "BID and read 42 and name HD)] "BID and read 43 and name HD)] "BID and read 43 and name HD)] "BID and read 43 and name HD)]							11		æ	æ	80	,	,	,	7		œ	œ	8,8	9.1	
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"BED" and readd 95 and name "BED" and readd 96 and name "BED" and readd 96 and name "BED" and readd 96 and name "BED" and readd 4 and name "BED" and readd 9	HD%) Weight		HD21)) HE%) weight	HN)) HDf) weight	HB1)) Welght	RN)) RB2 })	HE1)) HG2)) Weight	HE1)) HG1))									ى ~				5
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	esid S1 and name HN)) esid S1 and name HG1)) 2 100 peak 3521 weight	ASSI (2531) ((eggid BrD and resid 17 and name HN)) ((segid BrD and resid 17 and name HB)) 3 000 2 200 2 200 peak 2531 weight	{ 2541} aegid "BrD" and resid 17 and name segid "BrD" and resid 17 and name 2 400 1 400 1 400 peak 2541	ASSI (2551) (6891d "BrD" and resid 17 and name HN)) (6891d "BrD" and resid 17 and name HG2t)	{	18me 18me 2571	bedyld "BLD" and reski 100 and name segid "BLD" and reski 101 and name 2.600 1 700 peak 2591 (2.601) 100 100 peak 2591 (2.601)	esid 102 and name 2 100 peak 2601	<pre>segid "BKD" and resid 102 and name segid "BKD" and resid 101 and name 2 700 1 800 pcak 2611 { 2641}</pre>	((degald 'RPC' and Yeard 103 and name HN)) ((degald 'RPC' and Yeard 103 and name HN)) ((degald 'RPC' and Yeard 103 and name HN)) ASST (564)	((eegid "BPD" and resid 103 and name HN)) ((aegid "BPD" and resid 103 and name HBZ)) (2.800 2 000 2 000 peak 2651 weight onest 7 2651	(segid "ByD" and reard 103 and name HM)) (segid "ByD" and reard to, and name HB1)) 2 500 1 600 peak 2661 weight 6	{ 2671} segid "BrD" and resid 103 and hame segid "BrD" and resid 103 and name 2 3 200 2 600 2 300 reak 2671	seid 102 and name	[2711] segid "BrD " and resid 104 and name segid "BrD " and resid 104 and name of the segid "BrD" and resid 104 and name of the segid "BrD" and resid 104 and name of the segid "BrD" and resid 104 and name of the segid "BrD" and resid 104 and name of the segid "BrD" and resid 104 and name of the segid "BrD" and resid 104 and name of the segid "BrD" and resid 104 and name of the segid "BrD" and resident the segid the	1 700 peak 2711 said 104 and name	2 800 2 000 2 000 peak 2731 (2751) segid "BxD" and resid 104 and name	8egid "BrD " and resid 105 and name 2.700 1.800 1.800 peak 2751 { 27.11}	segid "BID and resid 78 and name segid "BID" and resid 78 and name 3 900 3 900 1 600 peak 2771 [2781]	((eegid 'BirD' and resid 81 and none HN)) ((eegid 'BirD' and resid 81 and none HX)) ((eegid 'BirD' and resid 81 and none HX)) ASR (2701)	segid "BrD " and resid 81 segid "BrD " and resid 81 2 500 1 600 1 600 [2801]	Begid "BED" and resid 81 and name HN)) segid "BED" and resid 81 and name HG14) 2.50 1 600 1 600 peak 2801 weight [2.281.]	(decgid 'BETD " and Yeald 81 and name HW)) decgid 'BETD " and Yeald 81 and name (LZ34) acgid 'BETD " and Yeald 81 weight 0 loss 2.001 2.001	(segid 'BrD' and reaid 82 and name HW) (segid 'BrD' and reaid 82 and name HW) 3 000 2 200 peak 2821 weight 0 (segid 'BrD' and reaid 82 and name HW) (segid 'BrD' and reaid 82 and name HW))
	7 253	4 708	3 807	3 39T	4 815	2 857		, 4 , 7 , 6	75 6 7	2 611	1 586	7 742	9 318	4.525	8 554	4 542	4 822	2,000		4 828	2 419	5 171	3 300	3 147
	8 832 ppm2	8.831 ppm2	8 833 ppm2	8 832 ppm2	8 307 ppm2	308	8 832 DDM2		2	7 762 ppm2	7 762 ppm2	8 308 ppm2	8 559 ppm2	8 564 ppm2	7.762 ppm2	8 355 ppm2	8 355 ppm2	8 086 mm2		8 087 ppm2	8 086 ppm2	8 880 ppm2	8 879 ppm2	8 879 ppm2 8.377 ppm2
	0.71965R+02 ppml	0 34426E+03 ppml	0 37083E+03 ppml	0 34763E+03 ppml	0 37621E+03 ppm1	0 14081E+03 ppm1				0 22961E+03 ppm1	0 15115E+03 ppm1	0 95252E+03 ppml	0 55801E+03 ppm1	0 45800E+03 ppm1	0 91502E+03 ppml	0 20145E+03 ppm1	0.38387E+03 ppm1	0 51528E+03 now1		81456E+03 ppm1	0 58085E+03 ppm1	0 15334E+03 ppm1	0 14660E+03 ppml	0 41931E+03 ppm1 0 13843E+04 ppm1
	0.11000E+01 volume	0.11000E+01 volume (0 11000E+01 volume (0 ll000E+01 volume (volume	0 11000B+01 volume C	volume	- autor		volume	0.11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0.11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0		0 11000E+01 volume 0	volume	0.11000E+01 volume 0	0 110006+01 volume 0	0 11000E+01 volume 0 0 11000E+01 volume 0
and	D peak 2241 weight 7 and name HN)) 7 and name HA))	peak 2251 and name	peak and	peak 2271 and name	peak 2281 and name	peak 2291 and name and name	and name	and name HN)) and name HA)) beak 2341 weight	and name HN))	2351 Weight name HN)) name HG2*)	2361 weight name HN))	2381 weight	1391 weight	RAO1 Weight	Mame HN))	2431	name HN)) name HA)) 2441 weight	6 and name HN)) 5 and name HB1)) peak 2451 weight (name HN))	461 weight lame HN))	1471 weight lame HN))	481 weight lame HN))	2491 LAme	ank 2501 weight and name HN)) and name HA))
resid 47	3.400 1.800 "BrD " and reald 47 "BrD " and reald 47	2 900 2 100 2 100 { 2261} segid "BrD " and resid 47	2 000 2 000 enid 47	2 100 esid 48	2 000 reald 48	2 200 1 48 2 1 400	esid 47 esid 48 1 800	esid 49	eald 49	celd 49	3 300 2 700 2 200 [[2381] segid "BrD " and resid 48 (segid "BrD " and resid 49	1 400	2 600 1 700 1 700 (2401) ecgld "BrD " and resid 50	eegid "BrD" and resid 50 and 1 2 700 1 800 1 800 peak 5 { 2421} seegid "BrD" and keeld 49 and F	Begid "BrD" and resid 50 and r 2 400 1 400 1 400 peak 3 { 2431} meqid "BrD" and resid 115 and r	segid "BrD " and resid 114 and 3 100 2 400 peak (2441)	eegid "BYD" and read 115 and a segid "BYD" and resid 115 and a 2 800 2 000 2 000 peak 7	segid "BrD" and resid 116 and 1 segid "BrD" and resid 115 and 1 2 700 1 800 1 800 peak	{ 2461} eegid "BrD " and resid 116 and n	1 600 "BrD " and re "BrD " and re	2 600 1 700 1 700 peak 2 { 2481} eegid "BrD " and resid 117 and r segid "BrD " and resid 117 and r	2 700 rD and rD and	3 300 2 700 2 200 peak [2501] and resid 117 and segid "BrD" and resid 117 and segid "BrD" and resid 117 and	6.6

	2 653 ppm2	10 051 ppm2	10 052 ppm2	10 051 ppm2	9 359 ppm2		10 051 ppm2	9 678 ppm2	2 359 ppm2	8 680 ppm2	7 973 ppm2	2 475 man		8 792 ppm2	8 599 ppm2	8 494 mm		8 598 ppm2	8 598 ppm2	8 793 ppm2	8 801 ppm2		8.811 ppm2	8 807 ppm2	8 809 ppm2		8.176 ppm2	8 182 ppm2
	0 90084E+02 ppm1	0 34424E+03 ppml	0 30448E+03 ppml	0.68430E+02 ppm1	0 45739E+03 ppml		0 55403E+03 ppm1	0 22011E+03 ppm1	0 21874E+03 ppm1	0 19421E+03 ppml	0 57256E+03 ppm1	0 192608+03 bom1		0 81267E+03 ppm1	0.88513E+02 ppm1	0 23859E+03 prm1		0 66455E+03 ppml	0 74771E+03 ppm1	0 87721E+03 ppml	0.16876E+03 ppm1		0 15715E+03 ppm1	0 12106E+04 ppm1	0 15172E+03 ppm1		0 39310E+03 ppm1	0 86588E+02 ppml
	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume		0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	11000E+01 volume) 11000E+01 volume	11000E+01 volume	11000E+01 volume		11000E+01 volume	0.11000E+01 volume	11000E+01 volume	11000E+01 volume		0.11000E+01 volume	11000E+01 volume	11000E+01 volume		11000E+01 volume	0.11000E+01 volume
and name HN })	3131 name	3141 wes	3151	and name HN)) and name HG2*) peak 3161 weight (and name HN)) and name HA }) peak 3171 weight (and name HN))		3201 name	and name peak 3221	and name HN)) and name HB2)) peak 3231 weight (and name HN)) and name HA)) peak 3241 weight (and name HN)) and name HB1)) beak 3251 weight	and name	peak 3271 wel	and name HN)) and name HA)) peak 3281 weight (and name HN)) and name HA)) beak 3291 weight (and name	peak 3301	and name HN)) and name HB2)) peak 3311 weight (and name HN)) and name HN)) peak 3331 weight o	and name HN)) and name HA)) peak 3341 weight 0	and name HN))	3351 weight	and name HB1)) peak 3381 weight o	and name HN)) and name HA)) peak 3391 weight 0	name	3411 name	HB1)) weight HN))
rD " and resid 39 rD " and resid 39	200 1 900 and resid 58	resid 58	2 100	<pre>segid "BrD " and resid 58 segid "BrD " and resid 58 3 700</pre>	rD " and resid 57 rD " and resid 57 1 800 1 800	eard 58	1 700 esid 56	2 400	2 400	segid "BrD " and resid 78 segid "BrD " and resid 78 3 200 2.600 2 300 3 3241}	rD " and reeld 55 rD " and reeld 55 1 700 1 700	esid 55 esid 55 2 300	es1d 16	1 600	"BrD " and resid 15 "BrD " and resid 11 3 200 1 900	rD " and resid 15 rD " and resid 15 2.200 2 200	resid 15	1 700	esid 15 1 600	rD * and resid 16 rD * and resid 15 1 600 1 600	rD " and resid 13 rD " and resid 13 2 600 2 300	3351} segid "BrD " and resid 14 segid "BrD " and resid 14	2 200 resid 13	resid 13	rD " and resid 14 rD " and resid 11 2.700 2.200	} "BrD " and resid 34 "BrD " and resid 34	2.000 reald 34	and resid 34 200 1 900 and resid 34
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((segid "BrD 2.800 2 ASSI (2841)	((segid "Br ((segid "Br 3 000 assr (2861)	(segid "Br (segid "Br (segid "Br	ASSI { 2871} ((seegid "BrD " and r ((seegid "BrD " and r	ASSI { 2891} ((segid "BrD' ((segid "BrD'	2 800 (2901) segid "Br	3,900 3 81 ASSI (2911)	((segid "Bri 2.500 ASSI { 2921}	. m m v -	ASS1 { 2941} ((segid "BYD " and (segid "BYD " and 3 400 2 400	2951} egid "Br egid "Br	2.600 { 2961} segid "Bri	2 900 (2971) segid "Bri	eegid "Br 2 500 { 2981}	segid "Br	ASSI { 3001} ((segid "Bri () segid "Bri	3 500 3.100 ASSI { 3011} ({ segad "BrD " and r	((segid "Bri 2.600 ASSI [3021]	((segid "BrD " and ((segid "BrD " and	ASST { 3041} ({ seg1d "BrD " and 1 ({ seg1d "BrD " and 1	3.100 2.400 ASSI { 3051} ({ segid "BxD " and r	2 600 ASSI { 3061} ((segid "BrD	(segid "BrD " and r 2 900 2.100 ASSI { 3071}	((segid "BrD ((segid "BrD 2 600	ASSI { 3091} ((segid "BrD " and ((segid "BrD " and		((segid "BrD 2 500 ASSI (3111)	((segid "BrD (segid "BrD 2 400	ASSI (3121)

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		986 6	8 381	9 036	9 03 6	9 037	8 66 B	8 998	8 858	8 858	8 748	8 268	8 569	695 8	8 568	8 497	8 924	8.884	8 809	8 793	8 793	699 8	9.072
		73125E+03	30830E+03	30432E+03	12506E+03	92666E+02	18605E+03	36964E+03		74895E+02	82145E+03	22227E+03	10791E+04		65212E+03	18755E+03	63166E+03	55346B+03	8		74092E+03	82685E+03	24581E+03
The column 1,11 Column 1,12 Column	•	11000E+01	11000E+01				101		11000E+01		11000E+01	11000E+01		11000E+01						11000E+01			
	and name	3731 name	3741 name	peak 3761 and name	peak 3771 and name	peak 3781 and name	and name peak 3791 and name	and name peak 3801	and name peak 3811	and name peak 3821	and name peak 3851 and name	and name peak 3861 and name	and name peak 3871	and name peak 3881	and name and name peak 3891	and name and name peak 3901	and name peak 3921	and name peak 3931 and name	and name peak 3941 and name	and name peak 3951 and name	and name peak 1961 and name	and name peak 3971 and name	and name peak 3991 and name
### 17-10-19 (March 2-1) (Marc	1} "BrD " and reaid 76 "BrD " and reaid 76	1 600 1 600 1) "BYD " and resid 1) "BYD " and resid 1)	2 100 2 100 1) "BrD " and resid 54 "BrD " and resid 54	2 100 2 100 "BrD" and resid 54 "BrD" and resid 54	2 2	3 200 1 900 1) "BrD " and resid 62	"BrD " and resign 5: 2 600 2 300 1} "BrD " and resid 62	"BrD " and resid 62 2 000 2 000 1}	"BrD " and resid 72 2 200 2 200 []	"BrD " and resid 73 400 1 800 []	"BrD " and resid 61 1 600 1.600 }	"BxD " and resid 62 2 400 2 400 [}	"BrD " and resid 60 1 400 1 400 1}	"BrD " and resid 60 1 400 1 400	"BrD " and resid 60 1 700 1 700	"BrD " and resid 59 "BrD " and resid 59 2.600 2 300 []	"BrD " and resid 6 1 700 1 700 1 1 100 1 100 1 100 1 100	"BrD " and resid 9 1 700 1.700 and resid 13	"BrD " and resid 12 2.600 2 300 1} "BrD " and resid 16	"BrD " and resid 15 2 700 2 200 .} "BrD " and resid 16	"BrD " and resid 15 1 600 1 600 .}	"BrD " and resid 16 1 600 1.600 .}	"BrD " and resid 18
Freid 34 and name [87] 1 1000E-01 volume 0 5155E-03 ppr1 0.182 ppr2 3 1 100 ppr2 3 1 100 ppr3 3 1 1 1 1 1 1 1 1 1	ASSI { 3733 ((segid ((segid	2 500 2 500 ASSI { 3741 ((segid ((segid () segid	2.900 ASSI { 3761 ((segid ((segid	2 900 ASSI (3771 ((segid ((segid	3 400 ASSI { 3781 ((Begid (Begid	3.600 ASSI (3791 ((begid	((Begra 3 200 ASSI { 3801 ((Begrd	((segid 2.800 ASSI (381)	3.000 ASSI (3821	((segid 3,700 ASSI { 3851 ((segid	((segid 2 500 ASSI (3861 ((segid	((segid 3 100 ASSI (3871 ((segid	(segid 2 400 ASSI (3881 (segid	(segid 2 400 ASSI (3891	((segid 2.600 ASSI (3901	((segid ((segid 3.200 ASSI (3921	(Begad (Begad 2 600 ASSI 3931	((segid 2 600 ASSI (3941 ((segid	((segid 3 200 ASSI (3951 (segid	((segid 3 300 ASSI (3961 (segid	((segid 2 500 ASSI (3971 ((segid	((segid 2.500 ASSI (3991 ((segid	3,000 3,000 ASSI (4001
Fig. 50 peak 341 weight (1971) Fig. 50 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1912 ppn. 3) Fig. 50 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1795 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1795 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1795 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 peak 341 weight (1900E-01 volume (1797E-01) ppn. (1794 ppn. 3) Fig. 51 ppn. (1794 ppn.																							مة ⁻
1.000 pask 3.314 weight (0.11000E-01 Volume (0.51557E-01 ppm.) 7.35	3.143		4 899	3 436		7 714	5,456	122	2 333	316	5 292	3.428				7) K			5 147	2 878		2.500
1.400 peak								80E 8	8 311 ppm2				8 885 DDM2						8 997 ppm2	924			
1. 400 peak 341 weight 0.11000E.01 volume vesad 35 and name HR 3) 2. 200 peak 3411 weight 0.11000E.01 volume resad 35 and name HR 3) 2. 000 peak 3451 weight 0.11000E.01 volume vesad 35 and name HR 3) 2. 000 peak 3451 weight 0.11000E.01 volume vesad 35 and name HR 3) 2. 200 peak 3451 weight 0.11000E.01 volume vesad 35 and name HR 3) 2. 200 peak 3471 weight 0.11000E.01 volume vesad 35 and name HR 3) 2. 200 peak 3471 weight 0.11000E.01 volume vesad 35 and name HR 3) 2. 200 peak 3471 weight 0.11000E.01 volume vesad 35 and name HR 3) 2. 200 peak 3511 weight 0.11000E.01 volume vesad 35 and name HR 3) 2. 200 peak 3511 weight 0.11000E.01 volume vesad 35 and name HR 3) 2. 200 peak 3511 weight 0.11000E.01 volume vesad 10 and name HR 3) 2. 200 peak 3511 weight 0.11000E.01 volume vesad 10 and name HR 3) 2. 200 peak 3511 weight 0.11000E.01 volume vesad 10 and name HR 3) 2. 200 peak 3511 weight 0.11000E.01 volume vesad 0 and name HR 3) 2. 200 peak 3511 weight 0.11000E.01 volume vesad 0 and name HR 3) 2. 200 peak 3511 weight 0.11000E.01 volume vesad 0 and name HR 3) 2. 200 peak 3511 weight 0.11000E.01 volume vesad 0 and name HR 3) 2. 200 peak 3511 weight 0.11000E.01 volume vesad 0 and name HR 3) 2. 200 peak 3511 weight 0.11000E.01 volume vesad 0 and name HR 3) 2. 200 peak 3511 weight 0.11000E.01 volume vesad 0 and name HR 3) 2. 200 peak 351 weight 0.11000E.01 volume vesad 0 and name HR 3) 2. 200 peak 351 weight 0.11000E.01 volume vesad 0 and name HR 3) 2. 200 peak 351 weight 0.11000E.01 volume vesad 0 and name HR 3) 2. 200 peak 351 weight 0.11000E.01 volume vesad 1 and name HR 3) 2. 200 peak 351 weight 0.11000E.01 volume vesad 1 and name HR 3) 2. 200 peak 351 weight 0.11000E.01 volume vesad 1 and name HR 3) 2. 200 peak 351 weight 0.11000E.01 volume vesad 1 and name HR 3) 2. 200 peak 351 weight 0.11000E.01 volume vesad 1 and name HR 3) 2. 200 peak 351 weight 0.11000E.01 volume vesad 1 and name HR 3) 2. 200 peak 351 weight 0.11000E.01 volume vesad 1 and name HR 3) 2. 200 peak 351 weight 0.11000E.01 volume vesad 1 and name HR 3)		8					60						B+03									B+03	E+03
1. 800 peak 341 weight 0 2. 20 peak 341 weight 1 2. 20 peak 341 weight 2 2. 20 peak 341 weight 1 2. 20 peak 341 weight 1 2. 20 peak 341 weight 2 2. 20 peak 341 weight 1 2. 20 peak 341 weight 2 2. 20 peak 341 weight 1 2. 20 peak 341 weight 2 2. 20 peak 341 weigh		.01 volume 0	volume 0	volume 0	volume	volume 0	volume 0	o emilos	volume	volume 0		volume 0	01 volume 0	o de la constanta de la consta		omn Tox	volume	volume	volume	volume	volume	volume 0	volume 0
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11	ame HB2)) 431 weight	ame HN)) 441 weight	ame HN)) ame HA)) 451 weight	ame HN)	ame HN)	ame HN ame HN 191 welg	ame HN ame HA 501 weig	tme HN	une HN	me HN	tme HN tme HA	me Hi	me H	8 8 5	1 2	HH	HH3	ime i	me H	me H	E H H		# # H
	and name peak 3431	and name and name peak 3441	and name and name peak 3451	and name and name peak 3461	and name and name peak 3471	and name and name peak 3491	and name and name peak 3501	and name and name	and name and name	and name and name peak 3541	and name and name peak 3561	and name and name peak 3571	and name and name beak 3581	and name and name	and name	and name	isid 62 and name isid 62 and name 2 100 peak 3641	sad 62 and name sad 61 and name 2 200 peak 3651	1 700 peak 3661	and name and name peak 3681	and name and name peak 3691	and name and name peak 3701	and name and name peak 3711

CARICAL CEECO

ppm2	ppm2	ppm2	ppm2 4	ppm2	ppm2	ppm2	ppm2	ppm2	ppm2	ppm2 2	ppm2	2	m 4	3	m2 3	m ₂	5	m2	5 2	ppm2 4	ppm2 2	22
qq e87 7	7 734 pp	dd 608 g	8 308 pg	8 307 pp	9 652 pp	9 652 pp	9 652 pp	9 652 PP	8.001 pp	8 001 pp	8 001 pp	8 308 ppm2	8 832 ppm2	8 832 ppm2	8.833 ppm2	8 307 ppm2	7 762 ppm2	7 762 ppm2	7 762 ppm2	8 564 pp	8 564 PP	8 564 ppm2
0 11812E+04 ppm1	0.17960E+03	0 97101E+02 ppml	0 16106B+03 ppm1	0 78555E+02 ppml	0 15683E+04 ppm1	0 11939E+03 ppm1	0 93234E+02 ppml	0 20061E+03 ppml	0 31481E+03 ppm1	0 36989E+03 ppml	0 32280E+03 ppml	0 42122E+03 ppm1	0 14320E+03 ppml	0 110138+03 ppm1	0.20297E+03 ppml	0.16649E+03 ppml	0 24376E+03 ppml	0 45441E+02 ppm1	0 17937E+03 ppm1	0 60014E+03 ppm1	0 31627E+03 ppml	0 77577E+02 ppml
0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+61 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 110005+01 volume
2 and name HN)) 1 and name RN)) 2 peak 4271 weight	and name and name peak 4291	and name and name peak 4301	and name and name peak 4311	and name and name peak 4321	and name and name peak 4331	and name and name peak 4341	and name and name peak 4351	and name and name peak 4361	peak 4381	and name peak 4391	and name	and name peak 4411	and name peak 4421 and name	and name peak 4431 and name	and name peak 4441	and name peak 4451	and name	and name peak 4471 and name	and name peak 4481	and name peak 4491	8.	and name peak 4511 and name
{ 4271} aesid "BrD " and resid 32 segid "BrD" and resid 31 2 300 1 300	291) 1d "BrD " and resid 35 1d "BrD " and resid 34 00 2 600 2 300	9 6	segid "BrD " and resid 36 segid "BrD " and resid 35 3 300 2 700 2 200 { 4321}	pegid "BrD" and resid 36 segid "BrD" and resid 35 3 700 3 400 1 800 { 4331}	megid "BrD " and regid 39 megid "BrD " and regid 38 2 200 1 200 1 200 { 4341}	(segid "BrD " and resid 39 (segid "BrD " and resid 38 3 400 2.900 2 100 if { 4351}	(segid "BrD " and resid 39 segid "BrD " and resid 38 3 600 3 200 1 900 [{ 4361}	8egid "BrD " and resid 39 segid "BrD " and resid 38 3.100 2 400 2 400 40181 Becald "BrD " and resid 43	segid "BrD " and resid 42 2 900 2 100 2 100 { 4391} and resid 43	(segid "BrD" and resid 42 2 800 2 000 2 000 [{ 4401} mand resid 43	(segad "BrD " and resid 42 2 900 2 100 2 100 [4411]	segid "BrD " and resid 36 { 4421}	(begid "BrD " and resid 46 a 3 300 2 700 2 200 I (4431)	segid "BrD " and resid 46 3 500 3 100 2 000 { 4441} segid "BrD " and resid 47	egid "BrD " and resid 46 .100 2.400 2.400 4451}	8 segid "BrD " and resid 47 3 200 2 600 2 300 I [4461]	egid "BrD " and resid 48 .000 2 200 2 200 4471}	segid "BrD" and resid 48 4.000 4 000 1.500 { 4481} seqid "BrD" and resid 49	segid "BrD" and resid 48 3 200 2 600 2 300 { 4491} secid "BrD" and resid 50	"BrD " and 1.700 1}	and resid	segid "ByD " and resid 49 3.700 3.400 1.800 {4521} eegid "ByD " and resid 55
ASSI (8691 (18691 (ASSI { 42 ((seg) ((seg) ASSI (43	(#egs (((seg) ((seg) 3 30 ASSI (43	((beg) ((beg) 3 70 ASSI (43	((segi (segi 3 40 ASSI 43	(8691 (9691 3 60 ASSI (43	((8691) (8691 3.10 ASSI (43	ASSI (43	((segi 2 80 ASSI (44	((3691 (3691 ASSI (44	((seg) ((seg) ASSI (44	((segs 3 30 ASSI (44 ((segs	((segs 3 50 ASSI (44	((segad 3.100 ASSI (445	((segi. 3 20 ASSI (44	(segn 3.00 ASSI (44 (seqn	((segi 4.00 ASSI (44			(sega 2.90 1 ASSI (45), 3,70 3,70 ASSI { 45
4.531	1 749	5 062	3 878	20 20 20 20 20 20 20 20 20 20 20 20 20 2	4. 80 80 80	4.361	4 734	4 40			, d	2 F	3 597	3 406	4 819	2 718		5 44 949	4 941	533	. E	2 295
9.072 ppm2	9 073 ppm2	8 669 ppm2	187	146	2. 2.	457		6 551 Ppm2 9 133 ppm2	151	171	39.		151	9 152 ppm2		275	275	481	8 480 ppm2	480	8 627 ppm2	7 739 ppm2
0.18724E+03 ppml	0 23212E+03 ppm1	9	,95460E+02	5	114256+03	15238E+03	0 91130E+02 ppm1	148435+	87462E+03	184915+03		915,02	119068+03	0.65813E+02 ppm1	02	11541E+03	885368+02 E	0 86531E+02 ppm1		109325+03 p	47519E+03 p	0 35188E+03 ppm1
0.11000E+01 volume 0.18724E+03	0 11000E+01 volume	0.11000E+01					O. 110008+01 VOLUME		0 110008+01 volume	: 3				0 11000E+01 volume				0.11000E+01 volume	0 11000E+01 volume		5	
	name 4021 name	peak 4041 weight and name HN)) and name HA))	peak 4051 and name	peak subl	and name	peak 4081 and name and name	and name	and name	and name and name peak 4121	and name and name peak 4141	and name and name	and name	and name and name peak 4171	and name and name peak 4181	and name and name peak 4191	and name and name peak 4201	and name and name peak 4211	and name and name peak 4221	and name and name peak 4231	and name and name peak 4241	and name and name peak 4251	and name and name peak 4261
peak	" <u>k</u>		_				9 4 m 6	8.40	8 4 0	227	228	588	28	23	969	0 6 8	230	200	122	400	8 - 0	31
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5 378	3 608	3 381	600 S	4 671	2.662	5 141	3 669	3 514	4 690	2 928	1 551	1 430	4 654	4 812	4 361	4 525	3 549	3 218	2 815	2 925	4 695	2 092	
8.762 ppm2	8 759 gpm2	8 763 ppm2	8 832 ppm2	8 627 ppm2	8 626 ppm2	8 305 ppm2	8 306 ppm2	8 306 ppm2	8.039 ppm2	8 040 ppm2	8 041 ppm2	8 040 ppm2	8.045 ppm2	7.536 ppm2	9 106 ppm2	8.611 ppm2	8 611 ppm2	8 610 ppm2	8.611 ppm2	8 611 ppm2	7.996 ppm2	7 996 ppm2	
48168E+03 ppm1	11537E+03 ppm1	13853E+03 ppm1	41855E+03 ppm1	12732E+03 ppml	152138+03 ppm1	95815E+03 ppm1	22391E+02 ppm1	15981E+03 ppm1	24443E+03 ppm1	12954E+03 ppm1	61869E+02 ppml	48346E+03 ppml	0 30696E+03 ppm1	0.10430E+03 ppm1	10099E+03 ppm1	11734E+03 ppm1	28328E+03 ppml	18815E+03 ppml	61964E+03 ppm1	59739E+03 ppm1	255548+03 ppm1	0 86259E+03 ppm1	
• 0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0.11000E+01 volume 0	0 11000E+01 volume 0	0.11000E+01 volume 0	O 11000E+01 volume O	0 11000E+01 volume 0	0.11000E+01 volume 0	0 11000E+01 volume 0	0.11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0.11000E+01 volume 0	0.11000E+01 volume 0	11000E+01 volume 0) 11000E+01 volume 0	11000E+01 volume 0) 11000E+01 volume 0	0.11000E+01 volume 0	0 11000E+01 volume 0	0.11000E+01 volume 0	
and name HN)) and name HA)) peak 4801 weight	and name HN)) and name HB1)) peak 4811 weight	and name HN)) and name HB2)) peak 4821 weight	and name HN)) and name HA)) peak 4831 weight	and name HN)) and name HA)) peak 4841 weight	and name HN)) and name HB2)) peak 4851 weight	and name HN }) and name HA)) peak 4861 weight	and name HN)) and name HB1)) peak 4871 weight	and name HN)) and name HB2)) peak 4881 weight	and name HN)) and name HA)) peak 4891 weight	and name HN)) and name HB)) peak 4901 weight	and name RG1%) and name RG1%) peak 4911 weight	and name HG2t) and name HG2t) peak 4921 weight	and name HN)) and name HA)) peak 4931 weight	and name HN)) and name HA)) peak 4941 weight	and name HN)) and name HA)) peak 4951 weight	and name HN)) and name HA)) peak 4961 weight (and name HM)) and name HM1)) peak 4971 weight (and name HN)) and name HG2)) peak 4981 weight (and name HN)) and name HB2)) peak 4991 weight	and name HN)) and name HB1)) peak S001 weight	and name HA)) peak S011 weight (and name HN)) and name HB') peak 5021 weight	and name HN))
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0 0 ne	ASSI [4811) ((segid "B ((segid "B 3 400	ASSI { 4821 ((segid ((segid 3 300	(aegid "BrD" (aegid "BrD" (aegid "BrD" (2 800 2)	ASSI (4841 ((segid ((segid 3 400	ASSI (4651 ((segid (segid 3.300	ASSI (4861 ((segid ((segid 2 400	(segid "8	(segid (segid (segid 3 300	((segid ((segid 3 ooo	((segid ((segid ((segid 3.400	breas)	(segid (segid 2 700	(segid (segid () segid	((Begid ((Begid ((Begid 3.500	((segid *B) ((segid *B) ((segid *B)	((segid "B ((segid "B (3.400	((segid ((segid) 3 000	ASSI (4981) ((segid "B ((segid "B 3.200	((segld ' (2.600	((segid ((segid ((segid	(segid	ASSI { 5021 (segid (segid 2 500	ASSI { 5031 {{ segid
																					•	,-	
5.542	2 572	1 956	5 352	2 978	4 648	4 805	4 419	4 697	1 665	8 489	2 974	2 670	4 816	8 734	4 656	866 B	4.481	3 637	3.637	3 393	3 393	3.459	3 474
7.974 ppm2	7 975 ppm2	7.975 ppm2	9 676 ppm2	9 679 ppm2	9 359 ppm2	10 050 ppm2	8 498 ppm2	8 498 ppm2	8.496 ppm2	10 051 ppm2	8 743 ppm2	8 743 ppm2	8 749 ppm2	8 566 ppm2	8 997 ppm2	9 477 ppm2	9 472 ppm2	8 206 ppm2	7.576 ppm2	8 205 ppm2	7 576 ppm2	7 634 ppm2	7 523 ppm2
0.11556E+04 ppm1	0 71474E+02 ppml	0 20373E+03 ppm1	0 38353E+03 ppml	0 92127 E +03 p pm1	0 16116E+03 ppml	0 12185E+03 ppml	0 13191E+03 ppm1	0 18613E+03 ppm1	0 21128E+03 ppm1	0 17034E+03 ppml	0 89496E+03 ppml	0 72876E+03 ppml	0 14220E+03 ppml	0 96369E+03 ppml	0 17192E+03 ppml	0 35764E+03 ppml	0 90728E+02 ppml	0 10454B+03 ppml	0 97769E+02 ppml	0.175386+03 ppm1	0 131826+03 ppm1	0.11561E+03 ppml	0 90206E+02 ppm1
0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	o 11000E+01 volume) 11000E+01 volume	0 11000E+01 volume	11000E+01 volume	0.11000E+01 volume) 11000E+01 volume) 11000E+01 volume) 11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	0.11600E+01 volume	11000B+01 volume (11000E+01 volume (0.11000E+01 volume (11000E+01 volume (11000E+01 volume (11000E+01 volume (
4521 weight name HN))	4531 Weight	name HB2)) 4541 weight name HN))	4551 weight	4561 weight name HN))	4571 weight	and name HA)) peak 4581 weight 0 and name HN))	4591 name	4601 weight name HN))	4611 name	4631 weight	4641 name	peak 4651 weight 0	4661 14661 14661	4691 name	4701 name	4711 name	4731 Weight	peak 4741 weight 0 and name HD22))	4751 name	4761 weight name HD22))	4771 name	14781 14781	and name HG1)) peak 4791 weight 0
tD " and resid 54 1.300 1.300 rD and resid 55	3 400 1 800	2 400 2 400 CD and resid 54	ono 2.000 and resid 56	400 1 400	600 2 300 and resid 58	ind resid 59	ind resid 59	ind resid 59	nd resid 58	o 2 300 nd resid 61	400 1 400 and resid 61	600 1 600 and resid 61	2 200 2 200 resid 60	o 1 400 nd resid 62	nd resid 63	nd resid 63	200 1.900 and resid 65	and resid 65	and resid 65	and reeid 65	900 2 100 and resid 24	and resid 24 900 2.100 and resid 24	and resid 24 200 1.900
({ segid "BrD 2.300 1 2.300 1 (segid "BrD (3 700 (454)	((segid "BrD 3 100 2 ASSI { 4551} ((segid "BrD	2 800 31 { 4561} ((segad "Ba	ASSI (4571) ((segid "BED "	3 200 4 458 8egad	ASSI (4591) (8691d "Br	3 400 ASSI { 4601} ((segad "Br	3 200 2.60 ASSI (4611) (segid "BrD " a	3 100 ASSI { 4631} ((segid "Br	3 200 2 3 200 2 ABSI { 4641} ((segid "BrD "	ASSI (4651) (segld "Br	2 500 1 [{ 4661} [segid "BrD	3 300 3 300 ASSI (4691) ((Begld "Br	2 400 1 400 [4701] [segid "BrD " and)	ASSI { 4711} (segad "BXD" a	2 800 2 2 801 2 800 2 4SSI { 4731} ((segid "BrD "	3 600 (4741) seegid "B	3 500 { 4751} segid "B	3 500 { 4761} segid "B	ASSI (4771) (segid "BrD"	3.400 2 3.400 2 ASSI (4781) ((segid "BrD	((segid "Br 3 400 ASSI { 4791} ((segid "Br	segid "BrD 3

4 976	3 516	3.514	3.679	3.676	2 818	2 697	2 576	2 807	2 702	2 580	2.777	3 144	\$ 042	4.764	4.839	3 135	2 776	8.679	4 426	3.997	3 107	4.813
8 858 ppm2	8 923 ppm2	8 416 ppm2	8 923 ppm2	8 416 ppm2	8 876 ppm2	8 875 ppm2	8 875 ppm2	8 714 ppm2	8 714 ppm2	8.714 ppm2	9 677 ppm2	9 679 ppm2	9 678 ppm2	9.680 ppm2	8 669 ppm2	8 669 ppm2	8 670 ppm2	7 979 ppm2	8 677 ppm2	8 674 ppm2	8.674 ppm2	8 936 ppm2
0 12542E+03 ppm1	0 54504E+02 ppm1	0 13631E+03 ppml	0 10399E+02 ppm1	0 50137E+02 ppm1	0 53011E+03 ppm1	0 93326E+02 ppml	0 87608E+03 ppm1	0 10524E+03 ppml	0 16925E+03 ppm1	0 13613E+03 ppm1	0 51785E+03 ppm1	0.85031E+02 ppm1	0 15989E+03 ppm1	0 25357B+03 ppm1	0 81131E+02 ppm1	0 12127&+03 ppml	0 41579E+03 ppml	0 91814E+03 ppml	0 15786E+03 ppm1	0 17339E+03 ppm1	0 24048E+03 ppml	0 16985E+03 ppm1
• 0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11800B+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0.11000E+01 volume	0 110008+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000K+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 110008+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E.01 volume
and name HN }) and name HA }) peak 5301 weight	and name HD21)) and name HB2)) peak 5311 weight	and name HD22)} and name HB2)} peak 5321 weight	and name HD21)) and name HB1)) peak 5331 weight	and name HD22)) and name HB1)) peak 5341 weight	and name and name peak 5351	and name HN)) and name HB1)) peak 5361 weight	and name HN)) and name HB2)) peak 5371 weight	and name	and name peak 5391 and name	and name peak 5401 and name	and name HB1 peak 5411 wei	and name and name peak 5421	and name and name peak 5431	and name HN and name HB2 peak 5441 wer	and name HN)) and name HA)) peak 5451 weight	and name and name peak 5461	and name and name peak 5471	and name HN)) and name HN)) peak 5481 weight	and name and name peak 5501	and name and name peak 5511	and name HN)) and name HB2)) peak 5521 weight	and name HN)) and name HA)) peak 5531 weight and name HN))
and resid 89 and resid 88 900 2 100	resid 89 resid 89 1.600	5321 segid "BrD " and resid 89 segid "BrD " and resid 89 segid "BrD " and resid 89	BrD " and resid 89 BrD " and resid 89 5 100 0 400	and resid 89 and resid 89 00 1 600	and and 800	and resid 92 and resid 92 200 1 900	and resid 92 and resid 92 and resid 93	2 000	segid "BrD" and resid 92 3.200 2 600 2 300 { 5401} segid "BrD" and resid 93	2 200 esid 94	1 800	esid 94	eard 94	nd resid 94 nd resid 93 0 2 200	esid 95	nd resid 95 nd resid 94 0 2 100	nd resid 94	and resid 96 and resid 95 400 1 400	61d 97 81d 96 2 200	({ segid "BrD" and reald 97 ([segid "BrD" and reald 96 3.200 2.600 2 300 881 { 5521}	and 97 2 200	931d "BrD " and resid 99 egid "BrD " and resid 98 200 2.600 2.300 5541}
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8 66 E	8 687	3 997	4 404	2 704	4 685	2 042	1 086		3,697	3 SS1			4. 6.4.9	1 903	126 \$	3 268		3 639	4 815	4 857	2 782	2 614 8 552
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egid "BrD " and .300 2.700 5041) egid "BrD " and	91d BrD and res 400 1 400 5061} 91d BrD and res	8 300 S 300 S 300 S 500	3 300 2 700 3 800 2 700 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3 200 2 600 1 { 5101} (segid "BrD " and res	3 700 3.400 { 5111} and res	2 500 1 600 { 5121} segid "BrD " and res	3 200 2 600 { 5131} segid "BrD " and res segid "BrD " and res 3 400 2 900	ਜ਼ਾਹ	{ 5151} segid "BrD " and resid segid "BrD " and resid 3 500 3 100 2	{ 5161} segid "BrD " and res segid "BrD " and res 2 800 2 000	and	ππ	ল ল	3.500 3.100 { 5201} segid "BrD " and res segid "BrD " and res	3.700 3.400 { 5211} segid "BrD " and res segid "BrD " and res	3 400 2 900 [5221] (segid "BrD " and res	{ 5231} segid "BrD " and res		3 200 1 9 1} ."BrD " and resid ."BrD " and resid	3.600 3.200 { 5261} segid "BrD " and res	3.100 2.400 [5271] segid "BrD " and resi	2 600 2 3 1) 2 600 2 3 "BrD " and resid "BrD " and resid

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•		8 217 ppm2	8 217 ppm2	8 668 ppm2	8 376 ppm2		8 377 ppm2	8 355 ppm2	8 355 ppm2	8 884 ppm2	8 876 ppm2	8 381 ppm2	7 926 ppm2		7 829 ppm2	8 188 ppm2	7 477 ppm2	960		9 072 ppm2	9 072 ppm2	9 076 ppm2	7 996 ppm2		7.996 ppm2	7 994 ppm2	7 996 ppm2	7 996 ppm2	
		0 379776+02	ne 0 72974E+03 ppml	ne 0 818015+03 ppml	ne 0 12247E+03 ppm1		ne 0 28680E+03 ppml	ume 0 95188E+02 ppml	ume O 765196+O2 ppml	ne O 60302E+03 ppm1	ne 0 212235+03 ppml	ne 0 81728E+03 ppml	ne 0 58235F+02 ppml		ne O 10842E+O3 ppml	ne 0 35552E+02 ppml	ne 0 59289E+02 ppm1	60.36231.0	•	ne 0 45519E+03 ppml	ne O 60681E+O3 ppml	ae 0 24628E+03 ppml	ne 0 24153E+03 ppm1	;	ume 0 64225E+03 ppml	re 0 101245+03 ppm1	ne 0 26923E+03 ppm1	ve 0.10769E+03 ppml	
2			0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume		0 11000E+01 volume	0 11000E+01 volu	0 11000E+01 volum	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	;	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume			0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volum		0.11000E+01 volum	0 11000E+01 volum	0 11000E+01 volume	0 11000E+01 volume	
	ASSI (5781) ((segid 'Bsp' and reaid 113 and hame HN)) ((segid 'Bsp' and reaid 112 and name HG2))	o / a l	2.500 1.600 1.600 peak 5791 [5801] and resid 112 and name	segid "BrD " and resid 113 and name 2 500 1 600 1 600 peak 5801 { 5811}	segid "BrD " and resid 114 and name HN)) segid "BrD " and resid 113 and name HA)) 3.400 2 900 2.100 peak 5811 weight	esid 114 and name	3 000 2,200 2,200 peak 5821 { 5831} segid "BxD" and resid 115 and name	segid "BrD" and resid 114 and name 3.501 2 000 peak 5831 8551 8551 and resid 115 and name	eegid "BrD" and resid 116 and name 3 700 3 400 1 800 peak 5851 5 561} secid "BrD" and resid 117 and name	segid "BrD " and resid 116 and hame 2.600 1 700 1 700 peak 5861 [5871]	segrd BrD * and restd 116 and name 3 100 2 400 2 400 peak 5871 [5881]	and restd is and restd its and name begid "brD" and restd 117 and name 2 500 1 600 peak 5881 { 5891}	((segad "BPD" and reald 79 and name HE31)) ((segad "BPD" and reald 79 and name HE31)) ((segad "BPD" and reald 79 and name HE31))	A551 (5901) ((18egid "BPD" and resid 79 and name HB22)) ((seegid "BPD" and resid 79 and name HG1))	2 000 peak 5901 esid 29 and name	begin bry and resid 23 and name holy) 4 200 4 200 1 300 peak 5911 weight { 5921}	((seegid "BrD" and teasid 29 and name HE22)) ((seegid "BrD" and teasid 29 and name HE22)) ((seegid "BrD" and teasid 29 and name HO1))) A	(segid "BYD" and weard 70 and name HN)) (segid "BYD" and weard 70 and name HII)) (segid "BYD" and weard 70 and mank ED3))	eeld 18 and name	2.700 1800 1800 peak 5941 { 5951} segid "BrD" and resid 18 and name	Segid "Bil" and resid to and name No. 2.600 1 700 1 700 peak 5951 weight 5651) 8 and resid 18 and name HN	segid "BrD " and resid 18 and name 3 000 2.200 2 200 peak 5961 { 5971}	(weigtd "BPD" and reastd 78 and name HN)) ((weigtd "BPD" and reastd 78 and name HB1)) ((weigtd "BPD" and reastd 78 and name HB1)) ((weigtd "BPD" and reastd 78 and name HB1)) ((weigtd "BPD" and reastd 78 and name HB1))	ASSI (2981) and resid 78 and name HW)) ((eegid "BED" and resid 78 and name HBZ))	peak 5981 and name	8egid "BrD " and resid 78 and name 3 500 3 100 2 000 peak 5991 [6001]	(1 megal with and resid 78 and name MO)) (1 megal with and resid 78 and name MO)) 1 000 2 200 peak 6001 weight (1 merght 601)	- 5 6 6	d resid 115 and name
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	8 936 ppm2	8,936 ppm2	8 669 ppm2		8 669 ppm2	8 513 ppm2	8.513 ppm2	9 156 ppm2	8 696 ppm2				7 763 ppm2	8 488 ppm2	9 740 ppm2		8 981 ppm2	8 980 ppm2	8 526 ppm2	8 526 ppm2	8 574 ppm2		8 714 ppm2	8 168 ppm2	8.170 ppm2		3	8.217 ppm2	8.216 ppm2
	0 11000E+01 volume 0.16699E+03 ppm1	0 11000E+01 volume 0 29941E+03 ppm1	0 11000E+01 volume 0 14856E+03 ppm1		0 11000E+01 volume 0.56660E+03 ppm1	0 11000E+01 volume 0 99135E+02 ppm1	0 11000E+01 volume 0 18321E+03 ppm1	0 11000E+01 volume 0 10380E+03 ppm1	0 11000E+01 volume 0 10037E+03 ppml	נטדמפניטין טי אשוויוטא		SOLATORES O SOLUTION	0 11000E+01 volume 0 16250E+03 ppml	0 11000E+01 volume 0 16160E+03 ppm1	0.11000E+01 volume 0 94653E+02 ppm1		0 110008+01 volume 0 106208+03 ppm.1	0 110008+01 volume 0 258145+03 ppml	0 11000E+01 volume 0 17635E+03 ppm1	0 11000E+01 volume 0 68256E+03 ppm1	0 11000E+01 volume 0.77637E+02 ppm1		0 110008+01 volume 0 782338+02 ppml	0 11000E+01 volume 0.28368E+03 ppml	0.11000E+01 volume 0 13983E+04 ppm1			0.11000E+01 volume 0 46496E+03 ppm1	0.11000E+01 volume 0 63604E+02 ppml
	2 300 peak 5541 weight	00954 010 and read 98 and name 2 900 2 100 2 100 peak 5551 { 5561}	((segid "BED" and resid loo and name HN)) ((segid "BED" and resid 99 and name HA)) (1 segid "BED" and resid 99 and name HA)) (1 segid "BED" and resid 99 and name HA))	esid 100 and name esid 99 and name	2.600 1 700 1 700 peak 5571 { 5581} segid "BrD" and resid 101 and name	segid "brD " and resid 100 and name 3 500 3 100 2 000 peak 5581 { 5591}	((segid "BrD " and resid 101 and name HN)) ((segid "BrD " and resid 100 and name HB1)) 1 200 2 600 2 300 pcak 5591 weight	(5501) segid "BrD" and resid 102 and name HM)) segid "BrD" and resid 101 and name HA)) 9 500 3 100 2.000 peak 5601 weight	{ 5611} segad "BzD " and resid 103 and hame HN)) segad "BzD " and resid 102 and hame HA)) 3 500 3 100 2 000 peak 5611 waidht	{ 5621} segid "BrD" and reaid 104 and name HN)) segid "BrD" and reaid 103 and name HA)) 3 200 2 600 2 300 reak 5621 wearch?	sid 104 and name HN))	esid 104 and name	3 200 2 600 2 300 peak 5641 { 5651} segid "BID" and resid 105 and name	8egid 'bru and resid 104 and name 3 200 2 600 2 300 peak 5651 { 5661}	Segar bru and resid tos and name HN /) segad "BrD " and resid lo5 and name HA }) 3 200 1.900 peak 5661 weight 6 4671)	said 107 and name HN))	2 000 peak 5671 weight esid 107 and name HN })	200 2 200 2 200 peak 5681 weight (5691) [5691]	89g1d "BrD " and resid 107 and name HA)) 3 200 2 500 2 300 peak 5691 weight { 5701}	segid "BrD " and resid 108 and name HN)) segid "BrD " and resid 107 and name HB1)) 2 500 1.700 1 700 peak 5701 weight	segid "BrD" and resid 109 and name HN)) segid "BrD" and resid 108 and name HA)) 3 700 3 400 1 800 peak 5711 weight	send 110 and name HN))	1.800 peak 5721 weight resid 111 and name HN))	3 000 2.200 2.200 peak 5731 weight { 5741}	serd 110 and name HW // serd 110 and name HB)) 1 300 peak 5741 weight	segid "BrD" and reald 111 and name HN)) segid "BrD" and reald 112 and name HN))	100 peak 701 mergin	2.700 1 800 1 800 peak 5761 weight { 5771} segid "BrD " and resid 113 and name HN })	resid 112 and name HG1)) 1.700 peak 5771 weight

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ASS	2 489	ppm2 2 489
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•) " and resid 19 and name KN))) " and resid 19 and name HG1)) 4 000 1 500 peak 6771 weight 0.11000E+D1 v	resid 19 and name HN)}	2 000 peak 6781 weight 0 11000E+01 eaid 12 and name HN))	resid 11 and name HA }} 2 200 peak 6791 weight 0 11000E+01 6#14 97 and name HN }}	reald 97 and name HB1 }} 1 300 peak 6801 weight 0 11000E+01	eeld 97 and name HN)} held 97 and name HG2 }} 2 loo peak 6811 weight 0 11000E+01	esid 109 and name HN)) esid 109 and name HB1)) 1 300 peak 6821 weight 0 11000E+01	esid 109 and name HN)) 2 300 peak 6831 weight 0 11000E+01	resid 109 and name HN)) resid 109 and name HOl)) 1 800 peak 6841 weight 0 11000E+01	esid 86 and name HN)) 'esid 86 and name HB1)) 1 800 peak 6881 weight 0 11000E+01	esid 66 and name HN)) esid 86 and name HO2)) 2 100 peak 6891 weight 0.11000E+01	esid 86 and name HN)) :csid 86 and name HDL)) I 700 peak 6901 weight 0 11000E+01	resid 103 and name HN)) resid 103 and name HOA)) 2 200 peak 6921 weight 0 11000E+01	eesid 104 and name HN)) eesid 103 and name HO1)) 2 300 peek 6931 weight 0 11000E+01	resid 48 and name HN)) resid 48 and name HG1)) 2.200 peak 6941 Weight 0.11000E+01	send 49 and name HN }) send 48 and name HG1 }) 1 400 peak 6951 weight 0.11000E+01	said 66 and name HN]) said 66 and name HB1 }) 2 300 mask 6961 weight 0 11000R+01	seld 35 and name HN))	2 100 peak 6971 weight 0.11000E+01 esid 54 and name HN)) esid 53 and name HA))	1 600 peak 6981 weight 0 11000E+01	1 200 peak 6991 weight 0 11000E+01. resid 51 and name HN))	esid 51 and name HBI)) 2 100 peak 7001 weight 0 11000E+01 resid 51 and name HN))	resid 51 and hame HB2)) 2.200 peak 7011 weight 0.11000E+01 ceatd 51 and name HN })	ceald 51 and name HG2)) 2 200 peak 7021 weight 0.11000E+01 ceaid 52 and name HN))	reald 52 and hame HA)) 2 100 peak 7041 weight 0 11000E+01 reald 52 and name HN))
ASSI { 6771}	segid "BrD segid "BrD 4 000	ASSI { 6701} (legeld "BED" and : (see1d "BED" and :	1 478 (peg1d "BKD" and z	(Gegid "BrD " 3 000 2. ASSI (6801) 1 674 (Requid "BrD "	ASSI	2 532 ((segid "BYD" and a (segid "BYD" and a 2 900 2 100 assr (segi)	2 439 (8 egyd "BED" and ro (8 egyd "BED" and ro 2 200 1 300	2 453 (ASSI (6001) 2 164 (1 eegid "BED" and (2 80914 "BED" and (2 700 " 1 800	~ B B m	3 032 ASS (6901) (6eg14 "BrD" and) (6eg14 "BrD" and) (6eg14 "BrD" and)	1 652 (6921) (9994d "BED" and 1 (9994d "BED" and 1 (1 652 (6931) (6 6921) (7 6921 'BrD' and 17 (6 6921 'BrD' and 17 (1 6921 'BrD' and 19 (1 6921	2 661 ASST (9694) and 1 (1 66944 PED " and 1 (1 66944 PED " and 2 (1 66944 PED " and 2 (1 66944 PED " and 2 (1 6994 PED " and 2 (ASSI (69%) 2 210 (69%) 6 69% 6 70 6 6 6 6 6 6 7 6 7 6 7 6 7 6 7 6 7	ASSI { 6961} 2 411 (6egid "BrD" and rv (8egid "BrD" and rv (8egid "BrD" and rv 3 200 500	ASSI (6971) 2 537 (segid "BID" and 1 (segid "BID" and 1	2.990 2.100 ASSI (6981) (6991d "BFD" and (6991d "BFD" and		(1 Begid - 27) 2 000 1. ASSI (7001) 2 462 (6 segid - 810 "	(eegid "BrD" and 2.906 2 100 ASSI (7011) (eegid "BrD" and 2.376	(eegid "BID" and 1 3000 2.20 ASSI (7021) 1.922 (eegid "BID" and 1	- SS84 - 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	((eegid "Bri 2 900 ASSI (706) (Recald "Bri
	3 ppml 9 455 ppm2	2 ppml 9 455 ppm2	3 ppm1 9.473 ppm2	3 ppm1 9 472 ppm2		3 ppml 9 473 ppm2	3 ppm1 9 472 ppm2	3 ppml 8 809 ppm2	3 ppml 8 809 ppm2	3 ppml 8.809 ppm2	3 ppm1 8 809 ppm2	4 ppml 8 654 ppm2	3 ppml 7 762 ppm2	3 ppml 8 564 ppm2	4 ppml 8 584 ppm2	3 ppml 8.584 ppm2	2 ppml 8 584 ppm2	s ppml 7 763 ppm2	3 ppml 7 763 ppm2	3 ppm1 7 763 ppm2	3 ppml 8 168 ppm2	2 ppml 8.170 ppm2	ppml 8 168	ppm1 8 168	, man
•	0 11000E+01 volume 0 47530E+03	0 11000E+01 volume 0 69056E+02	0 11000E+01 volume 0 19269E+03	0 11000E+01 volume 0 21627E+03		0 110006+01 volume 0 86099E+03	0 11000E+01 volume 0 26899E+03	0,11000E+01 volume 0 80229E+03	0 11000E+01 volume 0 24747E+03	0 11000E+01 volume 0.85081E+03	0 11000E+01 volume 0 18673E+03	0 11000E+01 volume 0 12087E+04	0 11000E+01 volume 0 20533E+03	0 11000E+01 volume 0 1240EE+03	0 11000E+01 volume 0 10941E+04	0 11000E+01 volume 0 45034E+03	0 11000E+01 volume 0 82950E+02	0 11000E+01 volume 0 59758E+03	0 11000E+01 volume 0 24911E+03	0 11000E+01 volume 0.30408E+03	0 11000E+01 volume 0.668138+03	0 11000E+01 volume 0 98067E+03	0 11000E+01 volume 0 88731E+02	volume	
resid 22 and	1.800 1 800 peak 6511 BED " and resid 22 and name	resid 22 and 1 800 peak	(eegid "BYD" and resid 63 and name HN)) (segid "BYD" and resid 63 and name HDZV) 3 200 2 600 2 300 peak 6531 weight	<pre>1 { 6541} { segid "BrD" and reaid 63 and name HN }) segid "BrD" and reaid 63 and name HDI*) 3 100 2 400 peak 6541 weight</pre>	resid 63 and name	1 600 peak 6561 resid 63 and name resid 63 and name	2 200 peak 6571	peak 6581	2 200 peak 6591 estd 14 and name	eeld 14 and name 1.600 peak 6601 eeld 14 and name	segid "BrD" and regid 14 and name HD1%) 3 000 2 600 2 300 peak 6611 weight (6621) (segid "BrD" and resid 24 and name HN))	1.300 peak 6621 seld 49 and name	2 400 peak 6631 esid 50 and name	resid 49 and name 2 100 peak 6641 resid 64 and name	1 400 peak 6651 resid 64 and name	name 6661 name	esid 64 and name 1 900 peak 6671 esid 104 and name	1 700 peak 6681	esid 104 and name esid 104 and name 2.200 peak 6691	d "BrD " and reald 104 and name HN)) d "BrD " and reald 104 and name HD1)) 2 100 2 100 peak 6701 weight	1 0.11 0.11	seld III and name seld III and name 1.400 peak 6721	esid 111 and name esid 111 and name 1.900 peak 6731	2 300 peak 6741	reald 19 and name HN)) i reald 19 and name HB1)) i 800 peak 6761 weight

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2 162		4 652 652 878		2 139	1 084	0 414	2 336	1 967	4 286	4 895	9 450	9 130	4 371	4 639	4 777	4 449	2 991	1 640	1 790	4.324	4.122	4 143
5 598 ppm2		9 071 ppm2		9 186 ppm2	9 189 ppm2	9 187 ppm2	8 146 ppm2	8 147 ppm2	9 120 ppm2	9 118 ppm2	8.147 ppm2	8 545 ppm2	8 661 ppm2	9 196 ppm2	8 170 ppm2	8,166 ppm2	9 196 ppm2	9 196 ppm2	9 197 ppm2	8.001 ppm2	8 001 ppm2	7 763 ppm2
85197E+02 ppml		0 107708+03 ppm1		40235E+03	63600E+02	71915E+02 ppm1	16507E+03 ppm1	13044E+03 ppm1	90645E+02 ppml	11524E+03 ppml	81392E+02 ppm1	42834E+02 ppml	16448E+03 ppml	12059E+03 ppml	17746E+03 ppml	92661E+02 ppm1	.67212E+03 ppm1	.31151E+03 ppml	21302E+03 ppm1	11281E+03 ppml	21754E+03 ppml	54216E+02 ppml
110005+01 volume 0	1	0 11000E+01 Volume 0	volume	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	0.11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	0 11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0.	11000E+01 volume 0.	.11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0
cesid 15 and name HN)) resid 14 and name HB2)) 1 900 peak 7341 weight o	resid 18 and name HN)) resid 14 and name HA))	3 100 2 000 peak 7351 weight rD and resid 21 and name HN)) rD and resid 18 and name HA)) 2 600 2.300 resk 7351 weight	i resid 18 and name HN)) i resid 18 and name HA)) 1 800 peak 7371 weight	send 19 and name HN)) Lend 18 and name HB1)) 2 000 peak 7381 weight 0	celd 19 and name HN)) esid 18 and name HDL*) 1 700 peak 7391 weight 0	send 19 and name HN)) send 18 and name HD24) 1 800 peak 7401 weight 0	eeid 20 and name HN)) eeid 19 and name HB1)) 2 300 peak 7411 weight 0	esid 19 and name HB2)) 2 100 peak 7421 weight 0	resid 19 and name HA)) 1 900 peak 7431 weight resid 23 and name HN))	2 100 peak 7441 weight 0	1 900 peak 7451 weight 0	resid 21 and name HN)) 1 400 peak 7471 weight 0	21 and hame HN)) 00 peak 7491 weight 0	resid 25 and name HN)) 2 100 peak 7501 weight 0	and resid 24 and name HA)) 10 2 300 peak 7511 weight and resid 28 and name HN))	resid 25 and name HA }) 1 900 peak 7521 weight 0 resid 26 and name HN })	resid 25 and name HB)) 1 700 peak 7531 weight 0 resid 26 and name HN))	and name HG2%) peak 7541 weight 0 and name HN))	resid 25 and name HG1t) 2 400 peak 7551 weight 0 resid 43 and name HW))	44 and name HD1 }) 00 peak 7561 weight 0 43 and name HN })	resid 44 and name HD2)) 2 400 peak 7571 weight 0 resid 49 and name HN))	resid 46 and name HA }} 1 600 peak 7581 weight o resid 56 and name HN }}
) 18584 98))) 155V	ASSI { se } }	ASSI (see (ASSI (ac (a	ASSI (se	Accident () 100 () 1) (se)	(() () () () () () () () () () ASSI }) 185K	((96) 3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		S ASSI	(se () SSI () SSI () SSI () SE	w 1-1 w		((96 2. ASSI ((Ge 3 ASSI ((86 3 ASSI (ă ~ ~ ă	
3.641	3 514	8 356	4 482	4 230	3 997	3 103	3 228	, c						2 65 2	2 092	4 475	2 422	66E E	8 817	4 770	1 393	2.454
9.004 ppm2	9.003 ppm2	9.004 ppm2	9 004 ppm2	9 004 ppm2	9 003 ppm2		8 498 ppm2	44 44 44 44 44 44 44 44 44 44 44 44 44						2 195 ppm2		8 885 ppm2	8 883 ppm2	8,802 ppm2	8 597 ppm2	8 794 ppm2		
0.11000E+D1 volume 0.48728E+03 ppml	1 volume 0 72550E+03 ppm1	1 volume 0 63507E+03 ppm1	l volume 0 26640E+03 ppml	l volume 0 10263E+03 ppm1	l volume 0 572878+02 ppml	volume 0 14988E+03	volume 0 12335E+03		0 94732E+03	0 757188+03	200	COTTREE O STATELON	TO SECURE O SECURE	volume	volume 0 99010E+02	. volume 0 20621E+02 ppm1	. volume 0 12456B+03 ppm1	. volume 0 111078+03 ppm1	volume 0 28889E+03	. volume 0 96679E+02 ppml	0 899798+02	0 551608+03
	()) ght 0 11000E+01	nn ;; HN ;; weight 0 11000E+01 HN ;;	HA)) weight 0 11000E+01 HN))	HD1)) weight 0 11000E+01 HW))	ght 0 11000E+01	۰	ght 0 11000E+01	• •		۰		900011))))))	, ,)))) ght 0 11000E+01)))) ght 0 11000E+01)))) ght 0 110008+01)))) ght 0.11000E+01)))) 9he 0 11000E+01	}) %) ght 0 11000E+01 volume	}) }} ght 0 11000E+01 volume
ոգտc 7051 ոգտe	esid 52 and name 1 600 peak 7051	estd 51 and name 1700 peak 7071 estd 52 and name	and name peak 7091 and name	esid 53 and name 2 000 peak 7101 esid 52 and name	1 600 peak 2 600 peak 681d 59 and	2 200 peak 7141 eald 59 and name	2 100 peak 7151 resid 59 and name resid 59 and name	es.1d 59 and name es.1d 59 and name 2 300 peak 7171	resid 57 and name resid 57 and name 1 400 peak 7181	esid 57 and name esid 57 and name 1 600 beak 7191	esid 57 and name	and name	eard 57 and name	esid 26 and name esid 26 and name	and name and name peak 7241	celd 10 and name esid 11 and name 0 900 peak 7261	{ 7271} segid "BrD " and resid 10 and name HW)} segid "BrD " and resid 9 and name HB1)) 3 400 2 900 2 100 peak 7271 weight	281) 1d "BrD" and resid 13 and name HN)) 1d "BrD" and reold 12 and name HB1)) 00 3 100 2 000 peak 7281 weight	[(7301) Gegid "BrD " and reald 15 and name HN)) Gegid "BrD " and reald 14 and name HN)) 2 900	(7311) segid "BrD" and reald 16 and name HN)) segid "BrD" and reald 13 and name HA)) 3.500 peak 7311 weight	resid 15 and name resid 14 and name 1 900 peak 7321	(7731) ergid "BED" and reald 15 and name HN)) argid "BED" and reald 14 and name HB1)) 2 600 1 700 peak 7331 Weight

	3 068	3 067	3.447	1 068	1 540	2 590	1 235		3 021		3 932	3 493	1 971	2 415	3 654	3 337	3 299	4 531	3 603	2 480	2 280	2.042
	7 523 ppm2	7 629 ppm2	9 133 ppm2	9 072 ppm2	8 049 ppm2	8 045 ppm2	9.679 ppm2	455	9.152 ppm2		8 007 ppm2	8 669 ppm2	9 187 ppm2	8 674 ppm2	8 487 ppm2	9 021 ppm2	8 886 ppm2	8 375 ppm2	7 517 ppm2	9 651 ppm2	9 653 ppm2	9 651 ppm2
	0.40620E+02 ppm1	100846+03 ppm1	11666E+03 ppm1	0.29964E+03 ppml	15507E+03 ppm1	38621E+03 ppm1	19974E+03 ppml	258368+03	23530E+03 ppm1	91388E+03	24560E+02 ppm1	39419E+03 ppm1	28394E+03 ppml	.82725E+03 ppm1	23309E+03 ppm1	23285E+O3 ppm1	26676E+03 ppm1	43718E+03 ppm1	21741E+03 ppm1	36178E+03 ppm1	74538E+03 ppml	20991E+03 ppml
	11000E+01 volume 0.	11000E+01 volume 0	11000E+01 volume 0	0.11000E+01 volume 0.	11800E+01 volume 0	0 110006+01 volume 0	11600E+01 volume 0	volume	11000E+01 volume 0	volume	11000E+01 volume 0	.11000E+01 volume 0	0.11000E+01 volume 0	0.11000E+01 volume 0.	11000E+01 volume 0	0 11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	0.11000E+01 volume 0	0.11000E+01 volume 0	0.11000E+01 volume 0
eeid 24 and name	4 100 4 100 1 400 peak 7861 weight 0 { 7871} segid "BED" and read 24 and name HE21)	deglar Terb and resid 24 and name HG2)) 100 3.100 2 000 peak 7871 weight 0 1 7881) 10931d Terb and resid 25 and name HN)	segid "BID" and resid 24 and hame HG1)) 1400 2 900 2 100 peak 7881 weight 0 7 7891) segid "BID" and resid 18 and name HN))	aegid "BrD" and reaid 18 and mame HD1t) 2 900 2 100 2 100 peak 7891 weight (7 901) oegid "BrD" and resid 73 and name HN))	segid "BrD" and resid 73 and name HD18) 3 300 2 700 2 200 peak 7901 weight 0 4 7911) segid "BrD" and resid 73 and name HN))	segid "BrD" and reald 73 and name HB1)) 2 800 2 000 2 000 peak 7911 weight (7921) segid "BrD" and reald 56 and name HN))	Segid "BYD" and resid 56 and name HD2#) 1000 2 400 Deak 7921 Weight 0 { 7931} Segid "BYD" and resid 22 and name HD3#)	3 000 2 200 peak 7931 weight 0 (7941) eegid "BED" and reald 110 and name HN) eegid "BED" and reald 110 and name HO11))	2 500 2 100 2 100 peak 741 weight of [7951] segid "DrD" and reaid 29 and name HN)) segid "BrD" and reaid 29 and name HO)) 3 100 2 400 peak 7951 weight of	F961) segid "BrD" and resid 23 and name HB2)) segid "BrD" and resid 33 and name HB2)) segid "1400 1 400 peak 7961 weight 0	{ 7971} secid **ED*** and resid 80 and name HN)) secid **ED*** and resid 80 and name HD2)) 4 400	eegid "B£D" and resid 100 and name HN }) eegid "B£D" and resid 100 and name HB1)) 2 800 2.000 2 000 peak 7981 weight 0 7 9981	<pre>segid "BrD " and resid 19 and name HN)) segid "BrD" and resid 19 and name HB2)) 3 000</pre>	esid 97 and name HN)) esid 97 and name HG1)) 1 600 peak 8001 weight esid 105 and name HN))	segid "BrD " and resid 105 and name HB2]) 3.100 2.400 2 400 peak 8011 weight 0 [8021] segid "BrD " and resid 12 and name HN))	Begid "BFD" and resid 12 and name HB2)] 3 100	Degla DED . and resid to dutione Rez !) 1 000 2 200 2 200 peak Soli weight 0 8 041} eegid "BED" and resid 114 and name HN)) eegid "BED" and Yesid 114 and name HN))	2.800 2 000 2 000 peak 8041 weight 0 { 8051} segat BID and read 85 and name HN })	### ### ### ### ### ### ### ### ### ##	segid BPD" and resid 39 and name HB1)) 2 800 2 000 2 000 peak 8101 weight (8111) eegid "BFD" and resid 39 and name HN))	oegid 'BTD' and Yeald 39 and name HD1)) 2 500 1 600 1.600 peek 8111 Weight (812) 8egid "BYD" and Yeald 39 and name HN))	eegid BpD and read 19 and need (31)) 3 100 2 400 2 400 pank 8121 wexght (8131) eegid BpD and reeld 57 and name HN))
2 693	4 452	4 807	3 667	4 669	4 691	4 969	3 989	4 411	3 705	4 768	4 811	4 796	4 441	9 096 7 963		4 443	4 932	4 275	277 7	4 290	4 936	4 587
9 679 ppm2 2 693	8 749 ppm2 4 452	8 584 ppm2 4 807	8 759 ppm2 3 667	9 106 ppm2 4 669	4	ppm2 4	7 639 ppm2 3 989	6 981 ppm2 4 411	9 463 ppm2 3 705	7 516 ppm2 4 768	8 858 ppm2 4 811	8.713 ppm2 4 796	ppm2 4		156 ppm2 4	9 156 ppm2 4 443	8 696 ppm2 4 932	7 763 ppm2 4 275	9 156 ppm2 7 772	8 488 ppm2 4 290	8 526 ppm2 4 936	8 794 ppm2 4 587
6	ppm2 4	ppml 8 584 ppm2 4	ppm1 8 759 ppm2 3	ppm1 9 106 ppm2 4	ppm1 8.680 ppm2 4	ppml 8 006 ppm2 4	150498+03 ppml 7 639 ppm2 3	80779E+02 ppml 6 981 ppm2 4	ppm1 9 463 ppm2 3	ppml 7 516 ppm2 4	ppml 8 858 ppm2 4	94491E+02 ppml 8.713 ppm2 4	ppml 9 125 ppm2 4	Ppm1 7.985 ppm2 9	ppm1 9 156 ppm2 4	ppml 9 156 ppm2 4	+03 ppm1 8 696 ppm2 4	25521E+03 ppml 7 763 ppm2 4	28976E+02 ppml 9 156 ppm2 7	ppml 8 488 ppm2 4	ppml 8 526 ppm2 4	ppml 8 794 ppm2 4
48254E+03 ppml 9 679 ppm2 2	30089E+03 ppml 8 749 ppm2 4	L 8 584 ppm2 4	8 759 ppm2 3	1 9 106 ppm2 4	8.680 ppm2 4	ppml 8 006 ppm2 4	ppm1 7 639 ppm2 3	ppml 6 901 ppm2 4	1 9 463 ppm2 3	1 516 ppm2 4	8 858 ppm2 4	ppml 8.713 ppm2 4	11000E+01 Volume 0 14245E+03 ppml 9 125 ppm2 4	Ppm1 7.985 ppm2 9	volume 0.10795E+03 ppml 9 156 ppm2 4	9 156 ppm2 4	ppm1 8 696 ppm2 4	ppm1 7 763 ppm2 4	ppml 9 156 ppm2 7	. 8 488 ppm2 4	1 8 526 ppm2 4	1 8 794 ppm2 4
ceid 56 and name HB1)) 1 800 pcak 7591 weight 0 110008+01 volume 0 48254E-03 ppml 9 679 ppm2 2	ocaid 61 and name HM)) evel 59 and name HM)) 2 loop peak 7601 waight 0 11000E+01 volume 0 30059E+01 pgml 8 749 ppml 4	Volume 0 11932E+03 ppm1 8 584 ppm2 4	Eveld 66 and name HN)) 2 10.00 peak 7621 wellt) 2 10.00 peak 7621 wellt) 3 10.00 peak 7621 wellt)	esid 75 and name HN)) esid 75 and name HN)) 2 100 peak 7611 weight 0 11000E+01 volume 0.13400E+03 ppml 9 106 ppm2 4		resid 80 and name HN)) 1 doop pask 765 May jhr () 110002+01 volume 0 794645+02 ppml 8 006 ppml 4	desid 81 and name RN)) 2 200 peak 7671 weight 0 11000E+01 volume 0 15049E+03 ppml 7 639 ppm2 3	ceald 82 and name HN)} reald 79 and name HA) 1 900 peak 7681 webt 0 11000E+01 volume 0 80779E+02 ppml 6 981 ppm2 4	eaid 84 and name HN /) 2 000 peak 7701 weight 0 11000E+01 volume 0 10576E+03 ppml 9 463 ppm2 3 68id 85 and name HN))	eaid 82 and hame HN)) 2 200 peak 7711 waight 0 11000E+01 volume 0 13652E+03 ppml 7 516 ppm2 4 eaid 89 and name HN))	0 11000E-01 volume 0 10495E-03 ppml 8 858 ppm2 4	1900 peak 7731 weight 0 11000E+01 volume 0 94491E+02 ppml 0.713 ppm2 4 easid 99 and name HN).	2 200 peak 7741 weight 0 11000E+01 volume 0 14245E+03 ppml 9 125 ppm2 4 6201 77 and name HN))	2 000 peak 7751 weight 0 110008+d1 Volume 0 102555+03 ppml 7.985 ppm2 9 e9.4 98 and name HN)} 1 600 peak 7751 weight 0 110008+01 Volume 0 511375+02 ppm1 9 125 ppm2 7	name HN)) Aname G (107958+03 ppml 9 156 ppml 4	esid 102 and name HN)) coid 59 and name HA)) 2 000 peak 7781 weight 0 11000E+01 volume 0.10221E+03 ppml 9 156 ppm2 4	esid 103 and name HN)) esid 100 and name HA)) 2 200 peak 7791 weight 0 11000E+01 volume 0.26822E+03 ppm1 8 696 ppm2 4	ened 103 and name HN)) cend 101 and name HN)) 2 200 peak 7801 weight 0 11000E+01 volume 0 25521E+03 ppml 7 763 ppm2 4	deficient (102 and name HN)) 1.200 pest 7811 weight 0 11000E-01 volume 0 28976E-02 ppml 7	0 11000E+01 volume 0 14640E+03 ppml 8 488 ppm2 4	and name HN)) 1.000 peak: 7414 MA.P. () 11000E+01 volume 0 82783E+02 ppml 8 526 ppm2 4	volume 0 350148+03 ppm; 8 794 ppm2 4

2 363	1 997	2.536	2.099	4 614	7.511	4 277	4 809	2 654	B 757	4 872	4 286	2 491	4 441	2 187	1 624	1 308	1 806	0.909	4 652	4.488	2 902	1 683
8 667 ppm2	8.668 ppm2	8 467 ppm2	8 485 ppm2	8 573 ppmZ	9 740 ppm2	9 740 ppm2	9.471 ppm2	9 472 ppm2	9.475 ppm2	9 458 ppm2	9 457 ppm2	9 457 ppm2	8 695 ppm2	8 695 ppm2	8 695 ppm2	8 695 ppm2	8 695 ppm2	9.073 ppm2	8 584 ppm2	8.583 ppm2	8 585 ppm2	8 998 ppm2
20903E+03 ppm1	66936E+02 ppml	67760E+03 ppm1	0,16286E+02 ppml	75253E+03 ppm1	76595E+02 ppml	78592E+02 ppm1	67510E+02 ppm1	14701B+04 ppm1	10977E+03 ppm1	39214E+02 ppm1	85958E+02 ppm1	51430E+03 ppm1	21373E+02 ppm1	17364B+03 ppm1	23656E+03 ppm1	856798+02 ppml	18049E+03 ppm1	0.37426E+03 ppml	22483E+03 ppm1	.56508E+02 ppml	57592E+03 ppml	30063E+03 ppml
11000E+01 volume 0	11000E+01 volume 0	0.11000B+01 volume 0	0.11000E+01 volume 0	0 11000E+01 volume 0	11000E+01 volume 0	110d0E+01 volume 0	11000E+01 volume 0	.11000E+01 volume 0	11000E+01 volume 0	0.11000E+01 volume 0	0.11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	0 11000E+01 volume 0	11000E+01 volume 0.	0.11000E+01 volume 0	0.11000E+01 volume 0
[6931] segid *BrD * and yeard 112 and name HN)) segid *BrD * and read 111 and name HB2)) 3.100 * 2 400 * 2 400 peak \$931 weight to	(8951) segid "BED" and read 112 and name segid "BED" and read 111 and name 3 800 1.600 1.700 peak 8951 { 9001}	acgid "BrD" and reald 104 and name HB1)) 2.500 1 700 1 700 peak 9001 weight [9021] and reald 105 and name HN)) acgid "BrD" and reald 105 and name HN)) acgid "BrD" and reald 105 and name HN)	estd 10% and name NSI // 0 700 peak 9021 weight estd 109 and name HN //	2 500 1 600 1 600 peak 9001 weight [9141] 1 600 peak 9001 wei	3 700 3 400 1 800 peak 9141 (9151) 400 peak 9141 (9151) 800 peak 9141 eegid "besid loo and name seciid "biD" and resid 102 and name	3.700 3.400 1.800 peak 5151 weight 0 { 9301} eegid *2FD * and real 6 3 and name HN } eegid *HPD * and read 60 and name UN)	2 800 3 600 1 700 peak 9301 (9321) and reald (3 and name	regid "BrD" and resid 62 and name HB1)) 2 200 1 200 1 200 peak 9321 weight 0 8 9331 begid "BrD" and resid 63 and name HN))	2 500 3.100 2 000 peak 9331 { 9351} and reald 22 000 peak 9331 { 9351} and reald 22 and name	legid "BYD" and geald 20 and name HA)) 4 100 4 100 1 400 peak 9351 weight { 9361} segid "BKD" and geald 22 and name HN))	regid "St.D" and resid 19 and name HA)) 3 600 3 200 1 900 peak 9361 weight { 9391} segid "BED" and resid 22 and name HN))	esid 21 and name HB)) 1 800 peak 9391 weight 0 esid 103 and name HN))	esid 99 and name HA)) 0 900 peak 9551 weight 0 esid 103 and name HN))	and name HG)) tak 9571 weight 0 and name HN))	esid 101 and name HG2%) 2 200 peak 9581 weight 0 esid 103 and name HN))	1 900 peak 9591 weight 0 eaid 103 and name HN))	celd 102 and name HB2)) 2 300 peak 9601 weight 0	2 000 peak 9691 Weight 0	and hame HN)) and name HA)) peak 9701 weight	esid 64 and name HN)) esid 62 and name HA)) 1 600 peak 9711 weight 0	caid 54 and name HN 7) eaid 63 and name HB1)) 1 700 peak 9741 weight	(d)
A8SI ((ASSI ((((((((((((((((((ASSI (803 () () () () () () () () () (ASSI (())	4	A22 ((ASS. ASS. (531 (52)	S98 (598)) 8.85.) 9.17	ASSI ASSI ((((((((((((((((((ASSI ASSI (147	ASS)	((ASSI 837 ((() ASSI ASSI	ASS3 (1)			010 ((م من	
9 355 ppm2 8	9 359 ppm2 2 3	ppm2 2	8 166 ppm2 4 8	8 166 ppm2 S 5	8 379 ppm2 0.982	8 877 ppm2 1 4	9 156 ppm2 2 5	9 156 ppm2 1 5	8 562 ppm2 s 7	8 001 ppm2 4 6	8 168 ppm2 1 7	8 168 ppm2 1 1	10 051 ppm2 2 9	051 ppm2 2	10 051 ppm2 2 4	n	051 ppm2 2	c constant	10 051 ppm2 2 0	y cauda	1 Cura	ppm2 2
75880E+02 ppm1	0 40297E+03 ppml 0 68904E+02 ppml	62	0 82533E+02 ppm1	0.64220E+D2 ppml	0 27507E+03 ppm1	0 73143E+02 ppm1	0 25477E+03 ppm1	0 14766E+03 ppml	10722E+03 ppml	0 24489E+03 ppm1	0 81338E+02 ppm1	48240E+02 ppm1	0 22478E+03 ppm1 1	ppml	0.29553E+02 ppm1 1	60769E+02 ppm1	60094E402 ppm1		0 6/7/65+U2 ppm.1 1	0 30694E+02 ppm1	CAllebio press	0 53559R+03 ppm1
0.11000E+01 volume 0.75880E+02 ppm.	0.11000E+01 volume (volume	0 11000E+01 volume (0 11000E+01 volume (0 11000E+01 volume C	0 11000E+01 volume C	0 11000E+01 volume 0	0.11000E+01 volume 6	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0 48240E+02	0 11000E+01 volume 0	volume	0 11000E+01 volume 0	0 11000E+01 volume 0	11000E+01 volume	9	0.11000E+01 Volume 0		emil (ox	0 11000E+01 volume 0
said 59 and name HN)) 1 800 peak 8131 weight said 57 and name HN))	name HBI)) 8171 weight name HN)) name HD1*) 8191 weight	and name and name peak 8201	and name HN)) and name HA)) peak 8241 weight	name HN)) name HD2)) 1251 weight	name HN)) name HG2%)	resid 117 and name HN)) resid 116 and name HG2*) 1 800 peak 8431 weight	esid 102 and name HN)) esid 101 and name HB)) 2 200 peak 8471 weight	esid 102 and name HN }) esid 101 and name HG24} 2 200 peak 8491 weight	esid 46 and name HN }} esid 46 and name HD4 } 2 000 peak 8541 weight	eeld 43 and name HN)) eeld 41 and name HA)) 2 200 peak 8591 weight	cestd ill and name HN)) cestd ilo and name HGil)) 1 900 peak 8671 weight	esid 111 and name HN }) esid 110 and name HDI\$} 1 500 peak 8701 weight	esid 58 and name HN)) esid 57 and name HB1)} 2 400 peak 8731 weight	esid 58 and name HN)) esid 57 and name HB2)) 2 400 peak 8741 weight	resid 58 and name HN)) resid 57 and name HDi)) 1 200 peak 8761 weight	resid 58 and name HN }} resid 57 and name HD2 }}	eard 58 and name HN)) eard 57 and name HG1))	esid 58 and name HN)) esid 57 and name HG2))	1 /UU peak B/91 Weight esid 10 and name HN)) esid 9 and name HG1)) 1 400 peak 8821 weight	2 100 peak 0021 Weight 001d 13 and name HN)) 2 100 peak 8831 weight	seld 14 and name HN)) seld 12 and name HN))	1 800 peak 8921 weight
((segid "BrD " and re 3.700 3.400 ASSI (B171) ((segid "BrD" and re	86914 "brD" and rec 2 800 2 000 { 8191} 86914 "BrD" and rec 86914 "BrD" and rec 3 700 3 400	I { 8201} (0eg1d "BrD " and r (seg1d "BrD " and r 3 700 3 400 I { 8241}	segid "BrD" and re segid "BrD" and re 3.600 3 200 { 8251}	segid "BrD " and r segid "BrD " and r 3 800 3 600 (8351)	segid "BrD " and r segid "BrD " and r 3 000 2 200 [{ 8431}	1 "BrD " and 1 1 "BrD " and 1 1 3 400	segid "BrD " and a segid "BrD " and a 3 000 2 200	(segid "BrD " and r segid "BrD " and r 3 300 2 700	# BrD " and "BrD " and 3 100	1 "BrD " and 1 "BrD " and 2 200	(segid "BrD " and r (segid "BrD " and r 3 600 3 200	1 "BrD " and 1 "BrD " and 4.000	f { 8731} (segid "BrD " and r (segid "BrD " and r 3 100 2 400	1 BrD and and and 2 400	[8761] (segid "BrD " and z (segid "BrD " and z 4 300 4 300	{ 8771} segid "BrD " and r segid "BrD " and r 3 800 3 600	8781} egid "BrD " and egid "BrD " and 800 3.600	{ 8791} segid "BrD " and r segid "BrD " and r 3 800 3 600	5 6021) 8 6921d "BrD " and r 9 691d "BrD " and r 9 100 4 100	4 200 4 200 1 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	[8841] (seg1d "BrD " and re (seg1d "BrD " and re 2 600 1 700	{ 8921} 8eg1d "BrD " and r 8eg1d "BrD " and r 2 700 1 800

	0 668	161 0	1 364	4.445	1 898	8 553	4 445	7 596	559		4 400	2 779	2 610	3 059	8 143		2 997	1 314	2 782	2 174	4 975	2 784		2.174	1 094	0 840
	014 ppm2	8.014 ppm2	5mgg 089	423 ppm2	571 ppm2	424 ppm2	572 ppm2				858 ppmz	858 ppm2	.865 ppm2	\$76 ppm2	275 ppm2	3	486 ppm2	480 ppm2	7.738 ppm2	739 ppm2	183 ppm2	181 ppm2		184 ppm2	.178 ppm2	177 ppm2
	ppm1 8	ppm1 8.	ppm1 8	ppm1 8	ppm1 8	ppm1 8	ppwl 8	ppm1	ppm1 8		n I wdd	ppml 8	ppm1 8.	ppm1 8	ppm1 12		g tudd	ppm1 8	.7. 1mgd	ppm1 7	ppml 8	laco.		ppm1 8	ppml 8.	ppm1 8
	63252E+00 pj	27938E+02 pl	14525E+03 pl	16077E+03 pp	10535E+03 pl	19900E+03 pl	36593E+02 pl				66703E+02 pl	67773E+02 pj	36189E+02 p	167708+03 pl	0.3808BE+02 pl		11011E+02 P	14151E+03 pg	57286E+02 pl	82617E+03 pi	36612E+02 P	60528E+03 DE	:	15559E+03 pl	11065E+03 pj	41672E+02 pl
	volume 0	volume 0	o onne o	volume 0	volume 0	o volume 0	volume o	volume 0	volume		Nothme 0	volume 0	volume 0	volume 0	volume		volume	volume 0	volume 0	volume 0	volume 0	volume		volume 0.	volume 0	l volume o
•	0.11000E+01	0 11000E+01	0 11000E+01	0 11000E+01	0 11000E+01	0 11000E+01	0 110005+01	0 11000E+01	0 11000E+01		0 110008+01	0 110006+01	0 11000E+01	0 11000E+01	0 11000E+01		0 11000E+01	0.11000E+01	0 11000E+01	0.11000E+01	0.11000E+01	0 110006+01		0.11000E+01	0.11000E+01	0 11000E+01
and name HN))	peak 10791 weight	ind name HDI4) ik 10801 weight ind name HN))	peak 10831 weight	and name HA)) peak 10911 weight	and name HD1)) peak 10951 weight	and name HN)) and name HN)) peak 10961 weight	and name HN)) and name HA)) peak 10971 weight	and name HN)) and name HD%) peak 11061 weight	and name HN)) and name HD1)) peak 11071 weight	and name HN))	and name HN))	ik 11101 weight	and name HB2)) peak 11111 weight	and name HN)) and name HB1)) peak 11121 weight	and name HN)) and name HN)) peak 11221 weight	and name HN))	peak 11261 weight and name HN))	k 11311 weight	and name HD1)) peak 11331 weight and name HN))	and name HD2)) peak 11341 weight	and name HN // and name HA)) peak 11381 weight	and name HN)) and name HD1)) beak 11411 weight	and name HN))	nk 11421 weight	peak 11461 weight	and name HG1)) peak 11471 weight and name HN))
resid 80 resid 78	0 000	1 100 resid 79	2 200	resid 83 2 200	resid 87 resid 86 2 000	resid 86 resid 87 2 400	resid 87	resid 89 resid 88 2 300	esid 69 esid 91 0 200	end 89	1 700 estd 89	1 700 esid 89	1 300	esid 92 esid 91 2 300	esid 30 1 400	esid 31	0 400 estd 31	2 200 esid 32	1 600 1 600 1 500	1 600	esid 34	esid 34	said 34	2 200 send 34	2 000 pea	resid 33 8 1 400 pes resid 34 9
and	5 500 .} "BrD and	#egid "BID " and i 4 400 4 400 [{10831} megid "BID " and i	"BrD " and 2 700	* and	and 100	BrD " and BrD " and 2 400	{10971} eegid "BrD " and 1 eegid "BrD " and 1 4 200 4 200	{11061} segid "BrD " and a segid "BrD " and a 3 200 2 600	{11071} segid "BrD " and) segid "BrD " and) 5.300	{11081} segid "BrD " and r segid "BrD " and z	1.800 3.600 {11101} segid "BrD " and r	3.600 BrD " and	8egid "BrD" and r 4.200 4 200 {11121}	"BrD " and "BrD " and 2.600	segid "BrD " and r segid "BrD " and r 4 100 4 100	(11261) segid "BrD" and r segid "BrD" and r	5.100 5.100 {11311} segid "BrD " and r	2 700 .) *BrD * and	Begid "BiD" and 13.900 (11341)	(segid "BrD " and r. 2.500 1 600 I [11381]	segid "BrD " and segid "BrD " and 4.200 4 200	segid "BrD " and r eegid "BrD " and r 2 600 1 700	[{11421} [8eg1d "BrD " and re [8eg1d "BrD " and re	2 700 .) "BrD " and	100 and	and 1.100
ASSI {10791} ({ segid "BrD (5.500 ASSI (10801 ((segid	, segia 4 400 ASSI (10631 ((segid	((segid 3,300 ASSI (10911	aeg1d 3 300 1 1095	Begind Begind	ASSI (10961 ((segid ((segid 3.100	ASSI {10971} ((eegid " ((eegid " 4 200	ASSI {11061} ((segid "B (segid "B 3 200	ASSI (11071 ((segid ((segid 5.300	ASSI {11081 ((segid ((segid ((segid	ASSI (11101 ((segid	3.800 3.800 ASSI (11111) ((segid "E	((segid 4.200 Assi (11121	((segid ((segid 3 200	((segid ((segid 4 100	ASSI (11261 ((segid ((segid	5.100 ASSI (11311 ((segid	3 300 ASSI (11331) ((segid ")	((segid 3.900 ASSI (11341 ((segid	((segid "F 2.500 ASSI (11381)	((segid ((segid 4.200	ASSI (11411 ((segid ((segid 2 600	ASSI (11421 ((segad ((segad	3.300 2 ASSI {11461} ((segid "BID		
																									متد	
1 484	4 473	4 697	6		1 610	4 888	2 755	4 637	7 660	4.820	7 007	3 345		4 2	7 500	7 701	4 532	4 370	2 816		2	4 005	3 349	2.580	2 493	4 412
8 998 ppm2	9.021 ppm2	9.133 ppm2	9	राजित दृद्ध ०	8 656 ppm2	8 659 ppm2	zwdd 669 8	8,796 ppm2	8 792 ppm2	9 106 ppm2	9 107 ppm2	7 979 ppm2	:	s ees ppmz	8 670 ppm2	7 979 ppm2	7.996 ppm2	7 996 ppm2	9.037 ppm2		zwdd aso s	6 981 ppm2	7 640 ppm2	7 640 ppm2	7 640 ppm2	7 640 ppm2
71463E+02 ppml	35721E+03 ppm1	34E+03 ppm1	2	rudd co.eg.	38E+02 ppml)3E+02 ppm1	10487E+03 ppm1	35770E+03 ppml	11249E+03 ppm1	50909E+02 ppml	18529E+03 ppml	63650E+03 ppm1		Twid 50+952971	13077E+03 ppm1	14891E+03 ppml	20590E+03 ppm1	98+03 ppm1	43885E+03 ppm1		126065+03 ppm1	53978E+02 ppml	91821E+02 ppm1	17E+02 ppm1	728258+02 ppm1	55498E+02 ppm1
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.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	2 11000 to 1000 to 1		11000E+01 volume	11000E+01 volume	11000E+01 volume	11000B+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume		11000E+01 Volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume		11000E+01 Volume	11000E+01 volume	11000E+01 volume	0.11000E+01 volume	11000E+01 volume	11000E+01 volume
HG2))	HN)) HD1)) weight	HN)) HA)) weight	HB1))	HN))	weight 0	weight 0	HBl)) weight 0 HN))	HA)) weight 0	HD%) weight 0	HA))	HD*)	HB2))		HN))	weight 0	. weight 0	HA)) HA))	HA))	HN))	HN))	HN))	weight o	HG1)) Weight 0	HN)) HB1)) weight	HN))	HN)) HA)) Weight 0
and	and name and name peak 9961	and name and name peak 10011	and name and name		peak 1005	peak 10071	and name peak 10101 and name	and name peak 10161 and name	peak 10171 and name	and name peak 10211	and name and name peak 10271	and name and name peak 10321	and name	peak 10391, and name	peak 10361	and name peak 10371	and name and name peak 10481	and name and name peak 10491	and name and name peak 10511	and name	peak 10521 and name	peak 10671	and name peak 10691	and name and name peak 10701	and name and name peak 10711	and name and name
and resid 62 30 1.800	and resid 12 and resid 11 50 2 000	and resid 25 and resid 22 30 2 200	and resid 24 and resid 23	2 2	nd restd	20 2	g og	ind resid 15	ind resid 15	ind resid 73	ind resid 74	nd resid 96 ind resid 95	ind resid 95	ind resid 95	10 2 100 nd resid 96	und resid 96	ind resid 78 ind resid 75	ind resid 78 ind resid 74 io 2 000	ind resid 54 ind resid 53 io 2 000	ind resid 54	ind resid 82	9	ind resid 80	ind resid 81 ind resid 80	ind resid 81 ind resid 80 1 800	and resid 81 and resid 79 800 1 600
91d "BrD " and 700 3.400 9961}	segid "BrD " and segid "BrD " and 2 800 2 000	(segid "BrD " and r (segid "BrD " and r 3 300 2 700	{10041} segid "BrD " and segid "BrD " and	(10051) segid "BrD " a: segid "BrD " a:	3 600 3 20 (10071) segid "BrD " a	segid "BID" and [10101] segid "BrD" and	1d "BrD " and 00 3.100 161) 1d "BrD " and	segid "BrD " and 2 800 2 000 {10171} segid "BrD " and	segid "BrD " and r 3 500 3 100 [{10211} [segid "BrD " and r	1d "BrD " a 50 3 80 271}	1d "BrD " a 1d "BrD " a 30 2.60	1d "BrD " a 1d "BrD " a 10 1 70	341} 1d "BrD " a ld "BrD " a	400 2 900 (10361) segid "BrD " and	3 400 2,900 [10371] segid "BrD " and a	1d "BrD " a 30 2 70 181}	segid "BrD " and 1 segid "BrD " and 1 3.100 2 400	segid "BrD " and segid "BrD " and 2 800 2 000	{10511} Begid "BrD " an Begid "BrD " an 2 800 2.00	(10521) (segid "BrD " and r segid "BrD " and r	{10671} segid "BrD " an	3 900 3.800 (10691)	segid "BrD " and 3 600 3 200 {10701}	segid "BrD " and segid "BrD " and 3 700 3 400	segid "BrD " and segid "BrD " and 3.700 3 400	{10731} eegid "BrD " a segid "BrD " a 3.900 3 80
((segi 3.70 ASSI { 99	((segs ((segs 2 80	(segi	ASSI (100 (seg) (segi	ASSI (100 ((segi	3 60 ASSI (100 ((seg1	ASSI (101)	((segs 3 50 ASSI (101 (segs	((segi 2 80 ASSI (101 ((segi	(eega 3 50 ASSI (102 ((eega	((segi 3 90 ASSI (102	3 20 3 20 3 20	((seg) ((seg)	ASSI (103 ((segi	3 40 ASSI (103 (1 segs	3 40 ASSI (103 ((peg1	(seg. 3 3(SI (104	((segs ((segs 3.10	((seg1 ((seg1 (seg1	ASSI (105 ((8egi ((8egi ((8egi	ASSI (105 ((segi (segi	ASSI (106 ((segi	3 90 ASSI (106	((seg) 3 60 ASSI (107	((segi	((segi ((segi () segi	ASSI (107 ((eegi ((aegi 3.90

2.010				1 680		, ,		, ,	3 796	4 152	3 408	5.727	7 944	4 523	1 995	1 926				0 991	4.650	1 874	7 701	1 867
8 714 ppm2				8 168 ppm2					8 307 ppm2	8 307 ppm2	8 307 ppm2	8 832 ppm2	8 833 ppm2	8 377 ppm2	9 003 ppm2	9.003 ppm2					7 822 ppm2	7 821 ppm2	8 674 ppm2	8 146 ppm2
0.10959E+03 ppm1		487835+03	26294E+03	27526E+03 ppm1	20 44 15 50	6			28319E+02 ppml	44246E+02 ppm1	35395E+02 ppml	10097E+03 ppm1	23274E+03 ppm1	65616E+03 ppml	11270E+03 ppm1	88686E+00 ppm1	113150403	200000	}	Ď.	12554E+03 ppm1	34295E+02 ppml	13710E+03 ppml	11346E+03 ppm1
11000E+01 volume 0		vol une	volume	0.11000E+01 volume 0	o long				11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	0,11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0		- C		+01 volume	11000E+01 volume 0	11000E+01 volume 0	.11000E+01 volume 0	11000E+01 volume 0
(1221) segid 110 and name HN)) segid "BrD" and reaid 110 and name HD)) 3500 3 100 2 000 peak 1321 weight 0	d resid 110 and name HN))	1 800 peak 12331 weight 0 esid 110 and name HN)) esid 109 and name HGI))	2 200 peak 12341 weight 0 resid 111 and name HN))	2 200 peak 12351 Weight 0. eaid 112 and name HN)) eaid 111 and name HG2))	(12371) segid "BID" and resid 113 and name HN)) segid "BID" and resid 110 and name HA)) 1 Ann	resid 113 and name HN)) caid 111 and name HB1))	esid 113 and name HN))	eeld 48 and name HN))	4 300	4 000 4 000 1 500 peak 12541 weight 0 (12551) segid "BrD" and resid 46 and name HN))	segid "BrD" and resid 47 and name HB2)) 4 200	segid "BrD" and resid 46 and name HDN) 3 500 3 100 2 000 peak 12561 weight 0 (12571)	segad "BED" and resad 47 and name HN)) segad "BED" and resad 47 and name HDF) 3 100 2 400 2.400 peak 12571 weight 0 [12631]	segid "BrD " and reald 51 and name HN)) segid "BrD " and reald 50 and name HA)) segid "DrO 1700 peak 12631 weight	[1264] aegid "BrD" and resid 52 and name HN)) segid "BrD" and resid 51 and name HB1)) 3 400 2 900 2 100 peak 12641 weight 0	(12651) segld "BrD" and resid 52 and name HN)) segld "BrD" and resid 51 and name HGL)) 5 500 5 500 0 000 peak 12651 weight 0	resid 52 and name HN)) resid 51 and name HG2))	send 52 and name HN)) send 51 and name HB2))	esid 52 and name HN }) esid 50 and name HO2*)	2 800 2.000 2 000 peak 12681 weight 0 (12711) egid "BrD" and resid 42 and name HN)) segid "BrD" and resid 41 and name HA))	2 100 peak 12731 weight 0 esid 42 and name HN))	4 200 4 200 1.300 peak 12771 weight 0 (12781) eggid "BPD" and resid 97 and name HN))	segra 310 2 700 2 200 peak 12781 weight 0. (12791) 8egad "BxD " and reaxd 20 and name HN))	eegid "BFD" and reald 19 and name HG1) 3 400 2 900 2 100 peak 13791 weight o (12801) eegid "BFD" and reald 19 and name HM)
4 363	2 840	3 380	2 146	5 012	1 437	1 562	7 782	5 135	1 502	1.531	2 401		2 498	2.603	2 116	1,076	2.698	2 426	2 189	4 447	4 811	2 012	4 936	4 682
8 182 ppr2	8 308 ppm2	8 832 ppm2	8.832 ppm2	8 626 ppm2	8 626 ppm2	8 626 ppm2	8 306 ppm2	8 039 ppm2	7 536 ppm2	7 536 ppm2	7 537 ppm2		7 536 ppm2	7 537 ppm2	8 046 ppm2	7 536 ppm2	9 125 ppm2	9 125 ppm2	9 124 ppm2	8.513 ppm2	8 513 ppm2	8 696 ppm2	7 763 ppm2	
0 11000E+01 Volure 0 17351E+03 ppr1	volume 0 43329E+02 ppm1	volume 0 632355+02 ppml	volume 0 76792E+02 ppm1	volume 0 80687E+03 ppml	volume 0 13257E+03 ppm1	volume 0 73874E+02 ppml	volume 0 111065+03 ppml	volume 0 19118E+03 ppm1	olume 0 24720E+02 ppml	volume 0 39673E+02 ppm1	0 11000E+01 volume 0 21474E+03 ppml		volume 0 29959E+03 ppml	volume 0 27375E+03 ppml	volume 0 13672E+03 ppml	volume 0 74433E+02 ppml	volume 0 78973E+03 ppml	volume 0 20137E+03 ppm1	volume 0 20070£+03 ppm1	volume 0.46069E+02 ppml	volume 0 20943E+03 ppm1	volume 0 37773E+03 ppm1	olume 0 18477E+03 ppm1	0 26295E+03
	0 11000E+01	0 110005+01	0 11000E+01	0 11000E+01	0 11000E+01	0 110008+01	0 110006+01	0 11000E+01	0 11000E+01 volume	0 11000E+01			0 11000E+01	0 11000E+01	0.11000E+01	0 11000E+01	0 11000E+01	0 11000E+01	0 11000E+01	0 11000E+01	0 11000E+01	0 11000E+01	0 11000E+01 volume	
33 and name HA)) 300 peak 11481 weight 36 and name HN))	35 and name HB1)) 500 peak 11501 weight	65	67 and name 66 and name 00 peak 11621	and name and name peak 11641	and name peak 11681	and name peak 11691	and name peak 11721	and name peak 11781	74 and name HN)) 73 and name HD2%) 100 peak 11791 weight	74 and name HN)) 73 and name HD14) 400 peak 11801 weight	74 and name HN)) 73 and name HG)) 400 peak 11811 weight	and name	peak 11821 and name and name	peak 11831 and name	and name peak 11871 and name	18 and name HD14) 800 peak 11901 weight 98 and name HN))	and name peak 11981	and name peak 11991	tend 97 and name HG2 }) 2 400 peak 12001 weight	resid 101 and name HN)) resid 99 and name HA)) 1 500 peak 12171 weight	resid 101 and name HN)) resid 97 and name HA)) 2 400 peak 12181 weight	and 103 and name HN)) aid 102 and name HB1)) 2.000 peak 12191 weight	rid 104 and name HN)) 11d 100 and name HA)) 2.300 peak 12201 weight	resid 107 and name HN)) resid 104 and name HA)) 2 200 peak 12231 weight
"BrD " and 2.600	resid	e e	ដូដូ	segid "BrD" and resid 68 segid "BrD" and resid 66 2 500 1.600 1.600 [1168]	segid "BrD " and resid 69 3 400 2 900 2 100 [[11691]	eegid "BrD " and resid 69 3 700 3 400 1 800 [11721]	segid "BrD " and resid 68 3 500 3.100 2 000 1 (11781)	1 0	6 oegad "BrD " and resid 74 segad "BrD " and resid 73 4.400 1100	segid "BrD" and resid 74 segid "BrD" and resid 73 4 100 4 100 1 400	I [11811] (segid "BrD " and resid 74 (segid "BrD " and resid 73 3 100 2.400 2 400	(segid "BrD " and resid 74 (segid "BrD " and resid 73	2 900 2 100 2 100 : {11831} [segid "BrD " and resid 74 [segid "BrD " and resid 73	3 000 2 200 2 2 2 2 2 3 2 3 3 3 3 3 3 3	aegid "bru" and resid 76 11901} segid "BrD" and resid 74	(eegid "BrD " and resid 18 3 700 3 400 1 800 ASSI (11981) (eegid "BrD " and resid 98			i ii	and and 4 000	D and D and 2 400	2 2	D and res D and res 2 600	8 8
((segid 3 200 1SSI (11501 ((segid	((segid "B 4 000 ASSI (11611)	((segi ((segi 3.80 ASSI (116	((segid ((segid 3 700 ASSI (1164)	((segid ((segid 2 500 ASSI (1168:	3 40 ASSI (116	3 70 ASSI (117	3 50 ASSI (117	((segid 3 200 ASSI (1179)	((sega (sega 4.40	((segr (segr (4 10	ASSI (118 ((segi ((segi	ASSI (118 ((8eg1 ((8eg1	2 90 ASSI (118 ((#eg1	3 00 ASSI (118 ((Beg1	ASSI (119 (119	(Beg: 3 76 ASSI (119 (Beg1	((segi 2 50 ASSI (119	((segi 3 10 ASSI (120	((segid "B 3 100 ASSI (12171)	((segid ((segid 4 000 ASSI (1218)	((segid "Br ((segid "Br 3 100 ASSI (12191)	((segt ((segt 2.80	(8eg1 (8eg1 (8eg1 3 20	ASSI (122 ((8ega ((8ega 3 00

1 1 1 1 1 1 1 1 1 1		680 ppm2 4 518	ppm2 4	ppm2 4	nom2		* zwdd	640 ppm2 9 655	981 ppm2 5 013	574 ppm2 4 935	714 ppm2 4 818	873 ppm2 5 343	125 ppm2 8 653	696 ppm2 8 519	39 ppm2 5 445	655 ppm2 2 870	045 ppm2 9 084	999 ppm2 2 952	832 ppm2 3 626		· ·	763 ppm2 9.736	545 ppm2 0.414	743 ppm2 2.837	998 ppm2 2 853
Column C		ppm1 8	ppm1 7	02 ppm1 7	.03 ppm1 7		o turid so	02 ppml 7	ppm1 7	102 ppm1 8	+03 ppml 8	E+03 ppml 8	+03 ppm1 9	+03 ppm1 8	5	603 ppm1 8	.02 ppm1 8	02 ppml 8	ppm1 8		r medd	102 ppm1 7	+02 ppml 7	+03 ppm1 8	•03 ppml 8
		volume 0	volume 0	volume	volume	o de militario		01 volume 0	volume 0	volume 0	volume 0	.01 volume 0	01 volume 0	volume 0	volume 0	volume 0	volume 0	01 volume 0	volume 0	e un l'oss		volume 0	volume 0	01 volume 0	volume 0
		HN)) HA)) weight o	HN)) HA)) Weight 0	HN)) HA))	HN))	25	Mergne O	weight 0 HN))	weight HN))	weight 0	reight 0	eight o	R))	HN)) weight 0 HN))	HA)) weight 0 HN))	HB2)) weight 0	HN)) Weight 0	HN)) HG1 }) weight 0	HN)) HB1)) weight 0	HN))	HN))	Weight 0 HN))	71 weight o 11000E	Weight 0	weight 0
### 1992 111000E-01 Volume 0 115158E-01 pps1 1.16 pps2 0 901 ### 1992 1.1600E-01 Volume 0 2792EE-01 pps1 1.16 pps2 1.46 ### 1992 1.1600E-01 Volume 0 2792EE-01 pps1 1.18 pps2 1.46 ### 1992 1.1600E-01 Volume 0 2792EE-01 pps1 1.19 pps2 1.46 ### 1992 1.1600E-01 Volume 0.2792EE-02 pps1 1.19 pps2 4.516 ### 1992 1.1600E-01 Volume 0.2792EE-02 pps1 1.19 pps2 4.516 ### 1992 1.1600E-01 Volume 0.2792EE-02 pps1 1.19 pps2 2.20 ### 1992 1.1600E-01 Volume 0.2792EE-02 pps1 1.19 pps2 2.20 ### 1992 1.1600E-01 Volume 0.2792EE-02 pps1 1.19 pps2 2.20 ### 1992 1.1600E-01 Volume 0.2792EE-02 pps1 1.19 pps2 2.20 ### 1992 1.1600E-01 Volume 0.2792EE-02 pps1 1.19 pps2 2.20 ### 1992 1.1000E-01 Volume 0.2792EE-02 pps1 1.19 pps2 2.20 ### 1992 1.1000E-01 Volume 0.2792EE-02 pps1 1.19 pps2 2.20 ### 1992 1.1000E-01 Volume 0.2792EE-02 pps1 1.19 pps2 2.20 ### 1992 1.1000E-01 Volume 0.2792EE-02 pps1 1.19 pps2 2.20 ### 1992 2.20		esid 79 esid 75 1 500	eeld 81 eeld 77	resid 85 resid 83	esid 85	eeld 88	esid 81	1.600 esid 96	1.800	o 900	2 000 cestd 92		e 9	2 100	1 100 1 100 esid 24	2 000	esid 75 esid 75 1 500	resid 62 and resid 61 and 1 600 peak	esid 67 and esid 65 and 2 000 peak	esid 75	esid 10	0 600 eald 74	800 1 600 and resid 61	2 000 resid 62	2 000
of mane [82] 1. (11000c-01 volume 0 115596-03 ppm1	ASST (13421)	ASSI [1541] ((segid "BrD (segid "BrD 4 000	ASSI {13431} ({ segad "BrD ({ segad "BrD 4 500	ASSI {13441} ((eegid "BED ((segid 'BED 3 600	ASSI (13451) ((segid "BrD ((segid "BrD 2 500	ASSI (13461) ((segad "BrD ((segad "BrD	ASSI (13481) ((segid "BrD ((segid "BrD	3.900 ASSI {13491} ((segid "BrD	3 700 ASSI (13501) ((segid "BrD	ASSI (13511) (eegad "BrD	3 500 3 500 ASSI (13521) ((segid "BrD	ASSI (13541) ((segid "Brb	(segid "BrD 2 900 ASSI (13551) (segid "BrD	((begid "BrD 2.900 ASSI {13561} ((begid "BrD	((segid "BrD 4.400 ASSI {13571} ((segid "BrD	((segid "BrD 2 800 ASSI {13581}	((segid "BYD ((segid "BYD 4.000 ASSI (13591)	((segid "BrD ((segid "BrD (3 900	((segid "BrD ((segid "BrD 2 800	ASSI (13621) ((segid "BrD ((segid "BrD	ASSI [13641] ((segid "BrD ((segid "BrD	4.900 ASSI {13671} ((segld "BrD	ASSI (13701) ((seglid 'BrD	(ASSI
### 1923 1 11000E+01 volume 0 11595E+03 ppm1 9 186 ppm2 0 1 1 1 1 1 1 1 1 1																									
### ### ### ### ### ### ### ### ### ##				1 476				2 310																	
### ### ### ### ### ### ### ### ### ##		9 186 ppm2						9 122 ppm2							8 205 ppm2				9.679 ppm2	8 670 ppm2			8 670 ppm2		
k 12801 weight not name HB2) k 12811 weight not name HB1) k 12811 weight not name HB1) k 12811 weight not name HB2) k 12821 weight not name HB2) k 12811 weight not name HB2) k 12811 weight not name HB1) k 12811 weight not name HB1) k 12811 weight not name HB2) k 13811 weight not name HB2) k 13811 weight not name HB2) k 13811 weight not name HB2)		0 11595E+03	0 22952E+03	0.27823E+03	0,27123E+03	0 64336E+02	0 65708E+03	0.39331E+03	0 47384E+03	0 10804E+03	0 74378E+02	0 326598+03		0 73008E+02			0.844185+02	0 42284E+02	0 78957E+02	0 11732E+03	0 44005E+03	0 42972B+02	0 66944E+03	0 66429E+02	
19.00 and result 18 and name 1823 19.01 19.02 and result 18 and name 19.01 19.02 and result 19 and name 19.01 19.02 and name 19.02 and name 19.02 19.02 and name 19.02 19.02 and name			0 11000E+01		0.11000E+01	0 11000E+01	0 11000E+01		0.11000E+01	0 11000E+01	0 11000E+01	0 11000E+01		0.11000E+01			0 11000E+01	0 11000E+01	0 11600E+01	0.11000E+01	0 11000E+01	0 11000E+01	0 11000E+01	0 11000E+01	
192 300 2 10 10 10 10 10 10 1	, both same 1852 1)	s and name HBZ)) O peak 12801 weight and name HN))	3 and name HDIV) 5 peak 12811 weight 7 and name HN })	3 and name HD3%) 5 peak 12821 weight 7 and name HN))	and name peak 12831	B and name HG))) peak 12871 weight	and name HN)) 2 and name HB1))) peak 12931 weight	and name and name peak 12941	and name and name peak 13051	and name and name peak 13071	and name and name peak 13081	D and name HN)) 9 and name HB2)) 1 peak 13141 weight	and name and name peak 13151	s and name HN)) i and name HG)) peak 13211 weight	s and name HD21)) i and name HB1)) peak 13281 weight	and name	peak 13291 weight a and name HN))	D peak 13321 weight	peak 13331 weight and name HN))	6 and name HB1))) peak 13341 weight	and name HN)) 2 and name HD2)) 3 peak 13351 weight	s and name HN)) s and name HG1)) peak 13361 weight	nd name nd name k 13371	and name and name peak 13381	and name HN))
	, and	brD " and resid I. 2 900 2 100 BrD " and resid 15	"BrD " and resid 6: 2 400 2 400 [] and resid 19	"BrD " and resid 6: 2 200 2 200 1} "BrD " and resid 19	"BrD " and resid 1: 2 200 2 200 1} "BrD " and resid 20	"BrD " and resid il	9 9		"BrD " and resid 26	"BrD " and resid 2' "BrD " and resid 24	"BrD " and resid 2' "BrD " and resid 24	"BrD " and resid 60 "BrD " and resid 55 2 100 2 100	1) "BrD" and resid 6: "BrD" and resid 64 2 700 2 200	1) "BrD " and resid 1! "BrD " and resid 14 3 400 1 806	1} "BrD " and resid 6! "BrD " and resid 64 3 200 1 900	"BrD " and resid 69	3 200 1 90: 1) "BrD " and resid 93 "BrD " and resid 93	4 100 1 400 "BrD " and reeld 94	1 800 1 800	"BrD " and resid lt 2 900 2 100	"BrD " and resid 6: "BrD " and resid 6: 1.800 1 800	"BrD " and resid 86 "BrD " and resid 86 4 100 1 400	"BrD " and resid 1: "BrD " and resid 14	1) "BrD " and resid 16 "BrD " and resid 15 3.600 1 700	"BrD " and resid 15 "BrD " and resid 16

4 992	3 018	4 812	4.675	8.726	2 891	2 784	2 607	5 440	4 453	4 288	2 169	1 308	2 308	2 476	1 318	1 558	1 394		1.296	1 156	2 290	8 368
8.746 ppm2	8 007 ppm2	8 611 ppm2	9 660 ppm2	9 651 ppm2	2 657 ppm2	9.658 ppm2	9 651 ppm2	9 359 ppm2	359 ppm2	9 359 ppm2	8 377 ppm2	2 375.8					8.380 ppm2		8 381 ppm2	8.381 ppm2	8 733 ppm2	8 880 ppm2
31176E+03 ppm1	21337E+03 ppm1	0.97995E+02 ppml	0.35765E+03 ppml	29321E+02 ppm1	37403E+02 ppm1	55108E+02 ppml	33585E+02 ppm1	21622E+03 ppm1	38316E+02 ppml	0.78885E+02 ppm1	68239E+02 ppml	72636E+02 poml		69844E+02 ppm1			.39844E+02 ppml		11494E+03 ppml	45762E+02 ppml	0.24692E+03 ppm1	0 55844E+02 ppml
.0.10000E+01 volume 0	0 10000E+01 volume 0	10000E+01 volume 0.	0 10000E+01 volume 0.	10000E+01 volume 0	10000E+01 volume 0	0 10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0.	10000E+01 volume 0	10000E+01 volume 0	volume 0	0 10000E+01 volume 0	volume 0	volume	10000E+01 volume 0.		0.10000E+01 volume 0	10000E+01 volume 0	100008+01 volume 0.	10000E+01 volume 0
name HN)) name HB1)} 4671 weight	name HN)) name HB2)) 5081 weight	name HN)) name HA)) 7641 weight 0	7691 weight name HN))	8061 weight 0	8071 weight 0	8081 weight	8091 weight o	8141 weight 0	8151 Weight 0	sici weight 0	3221 weight 0	name HN)) name HD1%)	name HN)) name HB%) 8271 weight 0	name HN)) name HBl)) 8281 weight	name HN)) name HD1%) 8301 weight	name HN)) name HG12)) 3311 weight	name HN)) name HD1%) 8321 weight 0	name HN)) name HG2%)	name HN)) name HG2%) 6331 weight	name HN)) name HD1\$) B341 weight 0	and name HN)) and name HB2)) peak 8401 weight 0 1	name HN)) name HN)) 8411 weight 0
" and resid 61 and " and resid 60 and 2 100 2 100 peak	esid 73 esid 74 2 400	celd 76 celd 73 2 000 celd 83	2 000 2 000 peak 2 000 2 000 peak 7 and resid 39 and	1 200 1 200 1 39	1 400 1 400	1.600 1.600	1 300 1 300	2 400 2 400 esid 57	4 100 1 400 peak 5 " and resid 57 and		1 700 pe	resid 114 resid 115	2.900 2 100 peak	3 400 1800 peak	2 900 2 100 peak	2 and resid 118 and 10 and 10 and 10 and 16 and 16 and 16 and 16 and 10	2 " and resid 118 and 2 " and resid 116 and 4 100 1.400 peak	1 resid 118 1 resid 116	0 and reald 118 and 2 and 2 900 2 100 peak	D " and resid 51 and 1 D " and resid 50 and 1 4 000 1 500 peak	esid 38 esid 37 2 200	D and resid 117 and D and resid 116 and 128 and 128 and 13 800
ASSI { 4671} ((segid "BrE ((segid "BrE 2 900	ASSI { 5081} (8eg1d "BrD " and x (6eg1d "BrD " and x 3 100 2 400 ASSI { 7641}	({ segid "BrD " and r (f segid "BrD " and r 3.500 3 100 ASSI { 7691} ({ segid "BrD " and r	(segid "BrD " and r. 2 800 2 000 ASSI (8061) (segid "BrD " and r.	ASSI { 8071} (segid "BrD " and r	ASSI (8081) (eegid "BrD " and r. (eegid "	ASSI (8691) (86910 "BYD " and	ASSI (8141)	3 100 2 400 3 100 2 400 ASSI (8151) (88914 "BYD " and r	ASSI (8161) ASSI (8161) ASSI (8161) ASSI (8161)	3 700 3 400 3 700 3 400 ASSI (8221) (segid "BrD " and 1	OR { 8221} ((segid 'Br	823 8691d 8691d	{ 8271} segid "Bri segid "Bri 3 400	ASSI (8281) ((8egid "BrD " and : ((8egid "BrD " and : 3 700 3 400	ASSI { 8301} {{ segid "BrD " and 3 { segid "BrD " and 3 3 400 2 900	ASSI { 8311} ((segid "BrD " and 3 ((segid "BrD " and 3 3 200 2 600	ASSI { 8321} ({ segid "BrD " and (segid "BrD " and 4 100 4 100	8321} seg1d	ASSI { 8331} (megid "BrD " and 2 (megid "BrD " and 3 3 400 2 900	{ 8341} segid "Br segid "Br 4 000 { 8401}	(eegid "BrD" and (eegid "BrD" and 3 000 2 200	(segid "BrD" and x (segid "BrD" and z 3 900 3 800
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4.926	4 622	4.628	4 253	4 755	4 415	4 451	276 7	7 949	7 498	7.782	3.297	3 958	4 201	7 899	3 572	8 075	7 505	4 525	7 246	4 936	4.895	5 021
9.472 ppm2	7.536 ppm2	9 106 ppm2	8 487 ppm2	9 196 ppm2	9 196 ppm2	9 152 ppm2	9 037 ppm2	8 307 ppm2	2 979 gmg	8 528 ppm2	5 038 ppm2	11 081 ppm2	11.081 ppm2	8 936 ppm2	8 673 ppm2	8 863 ppm2	2 660 ppm2	7 761 ppm2	8 695 ppm2	9 052 ppm2	9 678 ppm2	8 662 ppm2
0.16317E+03 ppm1	0.19208E+03 ppm1	0.21726E+03 ppm1 0.16504E+03 ppm1	194148+03	0.52793E+02 ppm1	0.62704E+02 ppm1	0.27795E-01 ppml	31830E+03 ppm1	57580E+02 ppml	10869E+03 ppm1	0 30492E+02 ppm1	23500E+02 ppm1	volume 0 47456E+02 ppm1	94290E+01 ppml	20460E+03 ppml	47904E+02 ppml	10704E+03 ppm1	0 44105E+02 ppm1	49544E+02 ppm1	64814E+02 ppml	32855E+03 ppm1	0 18743E+03 ppml	0.12104E+03 ppml
0.11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	+01 volume	11000E+01 volume	0 11000E+01 volume 0	11000E+01 volume	0 11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume	11000E+01 volume 0	11000E+01	11000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0	0.10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume
HA)) weight HN))	and name HA)) peak 13761 weight 0 and name HN)) and name HA))	reight o	HN)) HA)) weight 0	and name HN)} and name HA)} peak 13801 weight 0	and name HN)) and name HA)) peak 13811 weight 0	and name HN)) and name HA)) peak 13821 weight 0	and name HN)) and name HN)) peak 13831 weight 0	and name HN)) and name HD*) peak 13851 weight 0	and name HN)) and name HD%) peak 13861 weight 0	HN)) HD&) weight 0	HN)) HG1)) weight 0	and name HE1)) and name HB2)) peak 15591 weight 0	name HEI)) name HBI)) .5601 weight 0	and name HN)) and name H2)) peak lll weight 0	name HN)) name HEI)) 801 weight 0	name HN)) name HN)) 931 weight	and name HN }) and name HN)) ak 1891 weight	and name HN)) and name HA)) ak 2331 weight 0	and name HN)) and name HDt) ak 2631 weight o	and name HN)) and name HA)) peak 3601 weight 0.	and name HN)) and name HA)) peak 3751 weight 0	and name HN)) and name HA)) peak 4371 weight 0
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({ segid "BrD " and resid 59 a 3.200 2.500 2.300 pea NSSI [13761]	2 300 2 300 esid 75	2 400 estd 77 estd 74 2 300	ssid 10 2 300	(segid "BrD" and resid 26 (segid "BrD" and resid 24 900 3 800 1 600 pe	esid 26 esid 25 1 700	esid 29	esid 54 esid 55 2 100	said 48	2 000 s	1 (4011) estad "BrD " and resid 108 and name seegid "BrD " and resid 107 and name 4 300 4 300 1 200 peak 14011	14981 14981 14981 14981 14981 14991 1490 1900 1900 1988 14981 1900	esid 32 esid 32 1 500	cesid 32 cesid 32 0.300	segid "BrD " and resid 99 segid "BrD " and resid 34 3 100 2 400 2 400	segid "BrD " and resid 97 segid "BrD " and resid 97 4 000 4 000 1 500	segid "SrD " and resid 117 and 1 segid "BrD " and resid 116 and 1 500 3 100 2.000 peak	8 86914 "BrD " and resid 83 8 86914 "BrD " and resid 85 4 000 4 000 1 500	seid 49 esid 50 1.500	I { 2631} (segid "BrD " and resid 103 segid "BrD " and resid 82 segid "BrD " and resid 82 1 800 3 600 1 700 P	esid 9 2 100	(3751) megid "BrD" and reald 56 megid "BrD" and reald 35 3 200 2 600 2 300	segid "BrD" and resid 40 segid "BrD" and resid 42 3 400 2 900 2 100

1 602	1 620		1 314	7 033		4 674	1 136	994	2 904	1 797	1.228	7.806	2 031	7 050		4 682	21. 1	4.568	1 390		0		695	3 842
8.486 ppm2	8 574 ppm2		9 740 ppm2	9 740 ppm2		9 464 ppm2	9 463 ppm2	9 464 ppm2	9 456 ppm2	9 456 ppm2	9 456 ppm2	9 456 ppm2	8 556 ppm2	8 695 ppm2		8 696 ppm2	8 936 ppm2	8 936 ppm2	9 074 ppm2		9		100 G	8 669 ppm2
0 506038+02 ppm1	0 17190B+03 ppm1		0 58744E+02 ppml	19539E+02 ppm1		97923E+03 ppm1	17291E+02 ppm1	16063E+02 ppm1	41354E+03 ppml	92991E+02 ppm1	76602E+02 ppml	63643E+02 ppm1	19915E+03 ppml	14888E+03 ppm1		13131E+02 ppm1	10701E+03 ppm1	29603E+02 ppm1	80801E+02 ppm1		10.000	1024025+04		0 29691E+02 ppml
10000E+01 volume (0,10000E+01 volume (0 10000E+01 volume 0	10000E+01 volume 0		0.10000E+01 volume 0	0.10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume D	10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0	0 10000E+01 volume 0	10000E+01 volume 0		0.10000E+01 volume 0	0 10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0		0 1000001 0		aun to A	10000E+01 volume 0
(9051) segid "BED" and resid 105 and mare HN)) segod "BED" and read 101 and same HGSE) 3.900 3 800 1 600 peak 9051 weight 0	(9131) sector (BED " and restd 21 and name HN)) sector (BED" and restd 21 and name HO12)) 3 200 2 300 peak 9131 Weight	911) 8911 BrD and resid 21 and name segid "BrD and resid 21 and name (921)	<pre>segid "BrD" and readd 106 and name HN)) segid "BrD" and readd 102 and name HD2*) 800 3 600 1 700 peak 9211 weight { 9221}</pre>	segid "BrD " and resid 106 and name HN }) segid "BrD " and resid 62 and name Hrt } 4 600 4 600 0 900 peak 9221 weight 0	106 and name 82 and name	8091d "BYD" and reald 84 and name HN)) 8091d "BYD" and reald 80 and name HA)) 2 400 1.400 1.400 peak 9231 weight 4 9261	segid "BrD" and resid 64 and name HD1t) segid "BrD" and resid 50 and name HD1t) 4 700 0 000 peak 9261 weight (921)	vegid "BrD " and reald 84 and name HN)) segid "BrD " and reald 50 and name HG24) 4.800 4 800 0.700 peak 9271 waight 0 6.938)	segid "BrD" and resid 63 and name HN)) segid "BrD" and resid 63 and name HB1)) 2.800 2.000 2.000 peak 9381 weight 0 9411)	segid "BrD" and resid 22 and name HN)) segid "BrD" and resid 25 and name HG1%) 3 600 3 200 1 900 peak 9411 weight 0 9421)	segid "BrD" and resid 22 and name HN }) segid "BrD" and resid 21 and name HDL*) 3 700 3 400 1 800 peak 9421 weight 0 9 431)	segid "BrD" and resid 63 and name HN)} segid "BrD" and resid 68 and name HDt) 1.800 3 600 1,700 peak 9431 weight 0 9481}	segid "BrD " and reald 109 and name HN)) segid "BrD " and reald 109 and name HDI)) and 2 400 2 400 peak 9481 weight	1 254.1 1 254.1 103 and name HN) segid "BED" and resid 82 and name HEV) 2 300 2 700 2 200 peak 9521 weight 0	9521) eggid "BrD" and resid 103 and name segid "BrD" and xesid 82 and name (9541)	segid "BrD" and resid 111 and name HA)) 4 900 4 900 0 600 peak 9541 weight { 9611}	begid "BID" and resid 99 and name HN)) segid "BID" and resid 34 and name HE*) segid "BID" and resid 34 and name HE*) segid "BID" and resid 3500 3 100 2 000 peak 5611 weight	segid "BtD" and resid 99 and name HN)) segid "BtD" and resid 30 and name HB2)) 4 300 4 300 1 200 peak 9671 weight 0	{ 9681} segid "BFD" and resid 18 and name HN }) segid "BFD" and resid 14 and name HDZF) 3 600 3 200 1.900 peak 9681 weight 0	OR (9681) (1 megld "BrD" and resid 18 and name HN)) (megld "BrD" and resid 14 and name HD1N)	{ 9751} segid "BrD" and resid 64 and name HN)} segid "BrD" and resid 63 and name HB2)} 2 400 1 400 1 400 resit 9751 wanth	resid 64 and name HN)) resid 63 and name HD2*)	ceald 17 and name HB1))	peak 9811 weight 0 and name HN))
1 915	2 338	6 153	7 050		2 348	4 822		1 692		2 292	1 887	1 058			5 90 97 90 97		1 396	4 255	3 087	2.534	1.263	3 870	1 320	
8 876 ppm2	8 923 ppm2	9 156 ppm2	9 156 ppm2		9 156 ppm2	8 564 terms			8 001 ppm2		8 001 ppm2				2 164 ppm2		8 168 ppm2	10.051 ppm2	10 051 ppm2	10 050 ppm2	8 669 ppm2	8 487 ppm2	8 486 ppm2	
).57435B+02 ppmI	0 67409E+02 ppml	0 51665E+02 ppm1) 42485E+02 ppm1		86913E+02 ppm1	0 112678+02 ppm1											0 11425E+03 ppm1	0 731568+02 ppm1	0 48442E+00 ppml	21191E+02 ppm1	0 60826E+02 ppm1	0.10888E+03 ppml	0 76403E+02 ppm1	
0.10000E+01 volume 0.57435E+02	100006+01 volume	0 10000E+01 volume () 10000E+01 volume 0		0 10000E+01 volume 0 86913E+02	100008+01 volume	10000E+01 volume				0 10000E+01 volume 0.33897E+02	0 10000E+01 volume 0 32108E+02	O JOOOGEAN TOWN		volume		0 10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	10000E+01 volume 0 21191E+02	10000E+01 volume	0 10000E+01 volume 0	0 10000E+01 volume 0	
ASSI [8421] (6421) (6421) and rame RN)) (64214 FRD and resid 117 and name RN)) (64214 FRD and resid 116 and name RN)) (64214 FRD and resid 116 and name RN)) (64214 FRD and resident RN) (64214 FRD AND AND AND AND AND AND AND AND AND AN	and resid 7 and name HN)) and resid 6 and name HD1))	and name HN)} and name HE1 }} ak 8451 weight	" and resid 102 and name HN)) " and resid 82 and name HE*) 100 1 400 peak 8461 weight 0	" and resid 102 and name HN))	and name HN }) and name HB1 }) ak 8481 weight	and name and name ak 8501	and name HN }) and name HA)) ak 8551 weight	and name HN }) and name HB%) ak 8581 weight	and name HN }) and name HB1 }) ak 8601 weight	and name HN)) and name HD1)) ak 8611 weight	and name HN)) and name HG2*) ak 8621 weight	and name HN)) and name HG1%) ak 8631 weight	and name HN)) and name HGZ*)	and name HB1))	and name HN)) and name HG2%)	and name HN))	nk 8691 weight ind name HN))	1 800 peak 8711 weight eard 58 and name HN))	and name NG2)) peak 8721 weight and name HN))	esid 54 and name 0 900 peak 8801	PED " and read 112 and name HN)} PED " and read 110 and name HG2#) 3.600 1.700 peak 8971 weight 0	resid 105 and name HN)) resid 106 and name HB1)) 2.000 peak 8991 weight	Begrd "BrD" and resid 105 and name HN)) segid "BrD" and resid 102 and name HD2t) 3 700 3 400 1.800 peak 9041 weight 0	"BrD " and resid 105 and name HD1%)

	3 105	3.301		10 062	4 100	2 603	3 230	2 202		3 322	2 049	2 096	2 208		2 779	2,577	2 210		8 14 8	0 780	1 146	3 299 0 18	4 410	₽
	7 975 ppm2	7 974 ppm2		7 972 ppm2	9 674 ppm2	6 981 ppm2	6 981 ppm2	6 981 ppm2		8 005 ppm2	8 006 ppm2	8 661 ppm2		•	8 423 ppm2	8.423 ppm2	6.423 ppm2		3		354 ppm2	8.354 ppm2 8.354 ppm2 8.354 ppm2	714	
	0.10119E-04 ppm1	26376E+03 ppm1		42990E+02 ppm1	69879E+02 ppm1	33240E+02 ppm1	31962E+02 ppml		0 54085E+02 ppm1	1wdd 70+917cb3	71103B+02 ppm1	ppm1			23000E+07 ppm1	59561E+02 ppm1				22	ppm1	0 46286E+02 ppml 8. 0 19886E+02 ppml 8	ppm1	0 14983E+03 ppm1 6
÷	0.10000E+01 volume 0	10000E+01 volume 0		volume	volume	10000E+01 volume 0	volume 0	volume 0	0 100008+01 volume 0		volume 0	volume	0.10000E+01 volume 0 5			10000E+01 volume 0 5	10000E+01 volume 0 9	0 10000E+01 volume 0 6		ewnTox	• (volume 0	volume	0 10000E+01 volume 0 14
	1.400 peak 10571 weight	segid "BrD " and resid 78 and name HBI)) segid "BrD " and resid 77 and name HBI)) 3 000 2 200 2 200 peak 10581 weight (10591)	and name HN))	sold 56 and name HN))	3 400 I 800 peak 10621 weight BFD " and resid 82 and name HB)) BFD " and resid 80 and name HB1))	4 200 1 300 peak 10641 weight BrD " and resid 82 and name HN)) BrD " and resid 84 and name HB2))	1 200 peak 10651 weight esid 82 and name HN)) eeid 99 and name HB%)	resid 31 and name HN)) resid 77 and name HBI))	resid 80 and name HN }) resid 77 and name HB))	cD and resid 80 and name HN))	1 800 peak 10771 weight ceald 79 and name HN)) ceald 76 and name HB*)	2 000 peak 10841 weight esid 85 and name HN))	TO THE TOWN	cold 86 and name HN)) cold 87 and name HB1)) 1 700 beak 10921 weight	esid 86 and name HN))	send 86 and name HN)) send 87 and name HB2)) 1 700 peak 10931 weight 0	DED " and resid 86 and name HN)) BED " and resid 99 and name HHW) 3 200 1 900 peak 10941 weight o	resid 87 and name HN)) resid 50 and name HDI%) 1 700 peak 11001 weight	(C)	ixD and resid 88 and name HN)) 3 200 and neare HIL! 3 200 1 400 resit 1001	eeld 88 and name HN)) celd 84 and name HB2))	esid 88 and name HN)) esid 87 and name HG1)) 0.900 peak 11051 weight 0	XD " and regid 93 and name HN }) XD " and regid 91 and name HD2 }) 3 400 1 800 peak 11161 weight 0.	NED " and resid 93 and name HN)) IND " and resid 96 and name HBI)) 2 700 2 200 peak 11171 weight
	2.400 ASSI (1058	6201) 1838 000 E	(segration (second	ASSI (10621) ((segid ") ((segid ")	ASSI [1041] (segid ") (segid ")	ASSI { 200	A5SI {1061} ((segad "E (segad "E (segad "E	ASSI (10721) (1 segid ") (1 segid ") (2 segid ") (3 segid ")	ASSI (10751) ((segid "B ((segid "B 4 400	ASSI (10771 ((segid () segid	3 700 ASSI [20041] ((00914 ") (00914 ")	ASSI 1900 10001 10001 (megid (megid	ASSI (10691) ((segid	ASS[10921 } (segid "B (segid "B 3 800	OR (10921) (segad "BrD " and r. (segad "BrD " and r. ASSI (10931)	(Lead) 1254	negat var. (begat) (begat) (begat) 1800 (180	Cost (sector)	ASSI (11021) (segad " (segad " (segad 4 500	ASSI (11031) ((segid "B (segid "B	ASSI (11041) (1 segld "B (1 segld "B 4 000	ASSI (11051) (negata "; (negata "; (negata ")	ASS	(segid "F
	1 866	1 379		394		27.0	9 19	2 971	2 611		2 092	1 295		1 798	2 295	7 532	1 056	2 099	2 654	0 429	5 018	2 295	2 578	3 587
	8 669 ppm2	8.668 ppm2		8.669 ppm2	8.8 Smooth	021			9 022 ppm2		9 134 ppm2	9 133 ppm2		8 657 ppm2	8 792 ppm2	8 611 ppm2	9.105 ppm2	9 106 ppm2	9 108 ppm2	9 106 ppm2	8 669 ppm2	7 996 ppm2	7 996 ppm2	7 988 ppm2
	0.73405E+03 ppm1	0 46134E+02 ppm1		0 20602E+02 ppm1	0 24469E+03 ppm1	0 59337E+02 ppm1	0 38398E+02 ppm1	0 16530B+03 ppm1	13633E+03 ppm1		0 71669E+02 ppm1	0 60868E+02 ppm1		91063E+02 ppm1	73953E+02 ppml	15827E+03 ppm1	0 32785E+02 ppm1	0 13102E+03 ppm1	0 67546E+02 ppml	0.57563E+02 ppml	0 35043E+03 ppm1	0 94850E+02 ppml	0 46013E+03 ppml	0 14200E+03 ppm1
	0.10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume	0 10000E+01 volume			0 10000E+01 volume (0 10000E+01 volume 0		0 10000E+01 volume 0	0 10000E+01 volume 0		0 10000E+01 volume 0 91063E+02 ppml	0 10000E+01 volume 0	0 10000E+01 volume 0	10000E+01 volume	0.10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0.	0 10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	0.10000E+01 volume 0
and heme	Ze ak	and name HD2%) peak 9871 weight	and name HN))	and name HN)) and name HD2%) peak 9881 weight	and name HN)) and name HB2)) peak 9911 weight	and name and name ak 9951	and name HN)) and name HB2)) peak 9971 weight	me HN)) me HB1)) 81 weight	me HN)) me HB2)) 91 weight	and name	HN)) HD1)) weight	and name HN)) and name HD1%) eak 10031 weight	resid 102 and name HD2t) resid 24 and name HM)) resid 25 and name HG1t)	peak 10061 weight and name HN)) and name HG))	peak 10191 weight and name HN))	and name HN))	and name HD1%) and name HN))	and name HB*) eak 10261 weight and name HN))	and name HE#) eak 10291 weight					Weight () HN () HN () HN ()
irD " and	2.500 1.600 1.600 [9671]	segid "BID " and resid 17 8egid "BID " and resid 14 4 000 4 000 1 500 9871}	"BrD " and resid 17	esid 17 0 900	rD " and resid 72 rD " and resid 73 2 200 2 200	{ segid "BrD " and resid 12 { segid "BrD " and resid 13 { segid "BrD " and resid 13 { segid 3 600 1 700 per } { segid 4 600	BrD " and resid 12 BrD " and resid 15 4.100 1 400	(segid "BrD" and resid 12 and na 8 segid "BrD" and resid 11 and na 3 200 2 600 2 300 pcak 99 1 (9991)	(segid "BED" and keeld 12 and (segid "BED" and keeld 11 and 3.300 2 700 2 200 peak 9991)	segid "BrD " and resid 12 segid "BrD " and resid 11 (10021)	segid "BrD " and resid 25 segid "BrD " and resid 26 3 700 3 400 1 800 (10031)	segid "BrD" and resid 102 3 800 3 600 1 700 F	(segid "BrD " and resid 102 ASSI [10061] (segid "BrD " and resid 24 (segid "BrD " and resid 25	1 900 said 16	1.800 mend 76	2 200 ceald 75	1 30c t 30c t 30c t 30c	2 100	segid "BrD " and resid 75 3 800 3 600 1 700 pc {10301} segid "BrD " and resid 75	1 60c	2.100	1 900 1 900 resid 55	### and resid 37 2 700 1 800 1.800 pe 10441) ### ### ### ### ### ### #############	2 200 px 2 200 px rebid 80 resid 79

	,	4 255	2 519		2 282	7 515	2 547	1 678		1 /28		1 558	1 163	3 346	1 544	1 277	1 156	2.861	1 700	1 797	2 820		2 491 2.286
		8 669 gpm2	8 669 ppm2		8 513 ppm2	8 981 ppm2	8 980 ppm2	8 980 ppm2	8 522 ppm2	6 218 ppm2		8 355 ppm2	8 356 ppm2	8 355 ppm2	8 883 ppm2	8 083 ppm2	8 086 ppm2	8 832 ppm2	8 832 ppm2	7 762 ppm2	9 004 ppm2		7 820 ppm2 7 821 ppm2
		0.47923E+02 ppml	0 39843E+02 ppml		0 11138E+03 ppml	0 142738+03 ppml	0 11969E+03 ppml	0 48486E+02 ppml	20202E+00			47664E+01 ppm1	0 26420E+02 ppml	76081E+02 ppm1	17262E+02 ppm1	16590E+03 ppm1	0.17496E+03 ppml	33544E+02	60519E+0Z ppm1	0 90984E+02 ppm1	0.53690E+02 ppml		0.21408E+03 ppml 0.25898E+03 ppml
		0 100005+01 volume	0 10000E+01 volume		0 10000E+01 volume (0 10000E+01 volume 0	0 10000E+01 volume (10000E+01	0 10000E+01 volume 0	10000E+01 volume	0 10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	10000E+01 volume 0	0 10000E+01 volume 0	0.10000E+01 volume 0	0 10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0.		0 10000E+01 volume 0
Complete Series	2061 }	esid 100 and name HN)) esid 101 and name HA)) 1 500 peak 12061 weight		"BrD " and resid 100 and name "BrD " and resid 101 and name "BrD " and resid 101 and name	2 000 peak 12151 weight esid 107 and name HN))	*Eold 106 and name HDt) 2 200 peak 12221 weight resid 107 and name HN))		4 000 1 500 peak 12271 weight ED and resid 100 and name HN)) ED and resid 109 and name HB2))	0 000 peak 12291 weight resid 113 and name HN)) resid 17 and name HG2*) 1 200 peak 12411 weight	resid 113 and name HN)) resid 110 and name HG2*) 2 100 peak 12431 weight	eald 115 and name HN }) eald 113 and name HB%) 2 100 peak 12441 weight	resid 115 and name HN)) resid 116 and name HG12)) 0.000 peak 12451 weight	resid 115 and name HN)) resid 110 and name HD1%) 1.100 peak 12461 weight	resid 115 and name resid 110 and name 1 800 peak 12471	csid 117 and name HN)} esid 116 and name HG12)} 0 800 peak 12481 weight	resid 116 and name HN)) resid 110 and name HG2*) 2 300 peak 12491 weight	esid 116 and name HN)) esid 110 and name HD1k) 2 300 peak 12521 weight	(1259) (1259) and resid 47 and name HN)) segid "BrD" and resid 48 and hame HGZ)) 4 200 4 200 1 300 peak 12591 weight 0	(1901) (19	megad "BrD" and reald 49 and name HN)) megad "BrD" and reald 50 and name HB)) 3 600 3.200 1 900 peak 12621 weight 0	(segid "BrD " and resid 52 and name HN)) (segid "BrD " and resid 53 and name HGI)) 3 900 3 800 1 600 peak 12701 weight o	"BrD " and resad 52 and name HN)) "BrD" and resad 53 and name HBl)) "BrD" and resad 42 and name HN)) "BrD" and resad 43 and name HBl)	cD " and resid 42 and name HN)) rD " and resid 39 and name HD1)) 2 200
The state of the s	r) 1888	3.392 ((9e ()	e e	741 (3 594 (see 13 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	A591	ASS1 (((((447 (((((((((((((ASSI ()	ASSI ((527)	ASSI (((((((((((((((((((ASS (1868) (1866) (1868	(1953 (1	640 ((()))) 	947 (. ASSI	(seg seg seg seg seg seg seg seg seg	(2.0) (69) (69) (69) (69) (69) (69) (69) (6	544 (8 e g	791 (12) (12) (12) (12) (12) (12) (12) (12	361 (1 Reg) (Reg) 3 60 ASSET (177)	851 (segal 851 (2.068 (8691d	ASS) (
te land have from find half half		.276 ppm2	275	276 ppm2	phing child	736 ppm2 1	182 ppm2 3	179 ppm2 2	184 ppm2 1	185 ppm2 1	734 ppm2 1	308 ppm2	763 ppm2 1	832 ppm2 7	626 ppm2 2	626 ppm2 1	040 ppm2 3	039 ppm2 3	040 ppm2 2	047 ppm2 4	536 ppm2 2	536 ppm2 2.	ppm2 2
		0.10000E+01 volume 0.26154E+02 ppml 1	0 10000E+01 volume 0.15024E+03 ppml 1	0 10000E+01 volume 0 82022E+02 ppml 12	0 647608402	0 23592E+02		0 10000E+01 volume 0 29794E+03 ppml 8	0 10000E+01 volume 0 12961E+03 ppm1 8	0 10000E+01 volume 0 84106E+02 ppm1 8	0.10000E+01 volume 0.22012E+02 ppml 7	0 10000E+01 volume 0 11642E+03 ppm1 8	0 10000E+01 volume 0 34773E+02 ppml 8	0 26280E+02 ppm1 8	0.10000E+01 volume 0.74566E+02 ppm1 8	0 10000E+01 volume 0 40212E+01 ppm1 8	0 10000E+01 volume 0 91804E+02 ppm1 8	0 18080E+81 volume 0 13338E+83 ppm1 8 6	0 10000E+01 volume 0 79558E+02 ppm1 8 (0.10000E+01 volume 0 16883E+03 ppml 8 c	0.10000E+01 volume 0 18157E+02 ppml 7 5	0.100006+01 volume 0 278758+02 ppml 7.5 0 10000E+01 volume 0.618458+02 ppml 8.9	80
	((segid "BrD " and resid 28 and name HB2))	esid 30 and name	2 200 peak 11201 esid 30 and name	[1124]	(11251) segud "BrD" and resid 31 and name segud "BrD" and resid 28 and name 3 800 1 700 peak 11251	(11361) eggid "BrD" and resid 32 and name segid "BrD" and resid 102 and name 4 500 4 500 1 000 pesk 11361	Assi (1.594 "BrD" and resid 34 and name HN)) ({ segid "BrD" and resid 35 and name HGI }) 3.00 2.600 2.300 peak 11391 weight ASSI (1.1431)	segid "BrD " and resid 34 and hame 2 500 2 100 2 100 peak 11431} {11441}	14) 19ht	segid "BrD " and regid 102 and hame 3 600 3 200 1 900 peak 11451 {11521} acgid "BrD " and regid 35 and hame	### ### ### ### ### ### ### ### #### ####	##91d 621 and remid 57 and name HB1)) 3 400 2 900 2 100 peak 11561 weight {11571} and remid 66 and name HN))	segid old and remin 63 and name HDIN) 4 200 1 300 peak 11571 weight [11601] 10091 and resid 67 and name HN))	1 100 peak 11601 weight 1 200 peak 11601 weight esid 68 and name HB))	3 700 3 400 1 800 peak 11651 weight [41661] and read 68 and name HN)) seepid "BED" and read 68 and name HNIN!	\$ 500	<pre>segid "BFD" and read 68 and name HB1)) 3 600</pre>	### ### ### ### ### ### ### ### ### ##	Segid BED " and reeld 73 and name HB2)) 3 700 3 400 1 800 peak 11771 weight [11841] segid BED" and resid 73 and name HN))	regid "BrD" and resid 70 and name HBZ)) 2200 2 600 2 300 peak 11841 weight [1391] and resid 74 and name HN))	regid "ND" and resid /s and name HBZ)) 1700 4 700 0.800 peak 11891 weight 11911 and resid 74 and name HN))	400 4 400 1.100 peak 11911 weight 17031) 4 100 1.100 peak 11911 weight 1931 we	host (Leggid "BED" and reaid 99 and name HN)) ((segid "BED" and reaid 97 and name HB1)) 3 400 2 900 2 100 peak 12041 weight 0

1 405		4 874	5 140	1 082	3 \$57			8,642	2 665	9 745			4 798	1 640	4 568	1 881			2 715	8 500	998 0		5 016
7 536 ppm2		8 794 ppm2	7 537 ppm2	8 562 ppm2	2 998 gm2	8.086 ppm2	8 355 ppm2	8 375 ppm2	8 377 ppm2	8 529 ppm2	526	521	8.980 ppm2	9 740 ppm2	8 487 ppm2			8 675 ppm2	8 669 ppm2	936	936		8 677 ppm2
17399E+02 ppm1		26713E+02 ppm1	0.81254E+01 ppm1	18836E+02 ppm1	40043E+02 ppm1	12168E+02	0.38338B+02 ppm1	49230E+02 ppm1	99997E+01 ppm1	12932E+02 ppml			23253E+02 ppml	21267E+02 prml	22190E+02 ppml	11917E+02 ppm1			25437E+02 ppm1				62831E+01 ppml
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ASSE (1368) ((oegid "BED" and reeid 74 and name HN)) (eegid "BED" and refat 14 and name HDN) 4 700 4 700 0 600 peak 13681 weight 0	"BrD " and resid 74 and name HN" "BrD " and resid 14 and name HDS	BrD " and resid 16 and name HN)) BrD " and resid 17 and name HB)) 4 400 1 100 peak 13721 weight	eegid "BID" and resid 74 and name HN)) eegid "BID" and resid 68 and name HA)) 5.300 5.300 0.200 peak 13751 weight 0	(12302) (12302	(1489.1) (1489.1) (aggid "BYD" and regid 62 and name HN)) (aggid "BYD" and regid 67 and name HB1)) (4.100	(1993) segid "BED" and resid 116 and name HN)) segid "BED" and resid 75 and name HE\$ 5 000 0 500 peak 13931 weight		(1397) segid "BPD" and resid 114 and name HN)) segid "BPD" and resid 112 and name HN)) 4 000 4 000 1 500 peak 13951 weight	figure 1 and resid 114 and name HN)) segid "BrD" and resid 112 and name HB1)) 5.200 5 200 0.300 peak 13961 weight	(14001) oegid "BiD" and resid 108 and name HN)) segid "BiD" and resid 106 and name HN)) 4 900 4 900 0 600 peak 14001 weight 0	[14021] segid "BTD" and resid 108 and name HN)) segid "BTD" and resid 104 and name HA)) 2 700 1 800 peak 14021 weight	(14031) segid "BED" and resid 108 and name HN)) sector "BED" and resid 110 and name HG12)) 5 200 5 200 5 200 6 200	(14051) segid "BrD" and resid 107 and name HN)) segid "BrD" and resid 108 and name HA)) 4 500 4 500 7 6 6 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	esid 106 and name HN)) esid 21 and name HG2%) 0 900 peak 14081 weight	(14091) sand resid 105 and name HN)) seegid "BED" and resid 106 and name HA)) 4500 4 500 1 000 peak 14091 weight 0	(1 (1940) and resid 105 and name HN)) (((1951) and resid 103 and shad 103 and shad 103 and shad 104 and shad 105 occors oc	(44181) segid "BrD " and resid 100 and name HN)) segid "BrD" and resid 34 and name HZ)) 4 700 4 700 0 A00 mask laist watche 0	(4211) segid "BKD" and reaid 100 and name HN)) segid "BKD" and reaid 97 and name HB1))	4 400	and name HN))	0 000 peak 14261 weight esid 96 and name HN)) esid 101 and name HN))	1 100 peak 14271 weight 0. esid 97 and name HN)) esid 93 and name HB1))	peak 14291 weight 0 and name HN)) and name HA))
1 706	2 189	1 639		1.480	1 762	8 121	3,393	3 493	1 250	1 596	2 809	1 864	1 239	3 213	B 475	7 742		7.984	5 450	4 967	3 344	1 077	0 743
7 820 ppm2	8 145 ppm2	8 147 ppm2		8 146 ppm2	8 146 ppm2	9 119 ppm2	9 196 ppm2	9 195 ppm2	9.196 ppm2	8 169 ppm2	8 169 ppm2	8 498 ppm2	8 499 ppm2	8 565 ppm2	11 082 ppm2	11.082 ppm2	•	11 082 ppm2	11.082 ppm2	8.610 ppm2	8.613 ppm2	9 680 ppm2	9 681 ppm2
0 10310E+03 ppm1	0 82185E+02 ppm1	0 55288E+02 ppml		0 11141E+03 ppm1	0 53573E+02 ppm1	0 61946E+02 ppm1	0 33211E+02 ppm1	0 21672B+02 ppm1	0 41596E+02 ppm1	0 66585E+02 ppm1	0 88198E+02 ppm1	0 15860E+03 ppml	0 285208+02 ppml	0.93397E+02 ppml	0.12506E+04 ppml	0 18835E+03 ppm1		0.70734B+03 ppm1	0 22949E+03 ppm1	0 33586E+02 ppm1	0.37785E+02 ppml	0 38100E+02 ppm1	0 33875E+02 ppml
0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume	0 10000E+01 volume	0 100005+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000B+01 volume
(12761) eggid 'Pir' and resid 42 and name HN)) seggid 'BrD' and resid 43 and name HBt) 3 500 3 100 2 000 peak 12761 weight (12851)	(segid "BrD " and resid 20 and name HN)) (segid "BrD " and resid 19 and name HD1)) 3 600 3 200 1 900 peak 12851 weight 51 12881	(segid "BrD" and reard 20 and name HN)) ((segid "BrD" and reard 21 and name H012)) 3 900 3.800 1.600 peak 12881 weight	"BrD " and resid 20 and name "BrD " and resid 21 and name 1}	(segid "BrD " and resid 20 and name HN)) segid "BrD " and resid 63 and name HD2%) 3 500 3 100 2 000 peak 12891 weight [{15901}	segid "BrD " and resid 20 and name HN)) segid "BrD " and resid 17 and name HG2t) 3 900 3.800 1 600 peak 12901 weight {12291}	segid "BrD" and resid 23 and name HN)) segid "BrD" and resid 20 and name HN)) 3 800 3 600 1,700 peak 12991 weight [13021)	and name and name peak 13021	resid 26 and name resid 35 and name 1 000 peak 13031	(eegid "BED " and resid 26 and name HN)) eegid "BED " and resid 56 and name HD2t) 4.100 4 100 1 400 peak 13041 weight (13061)	ecgid "BrD " and resid 27 and name HN)) segid "BrD" and resid 26 and name HG1)) 1 800 3 600 1 700 peak 13061 weight (13091)	and name HK)) and name HE) peak 13091 weight	segid "BED" and resid 59 and name HN)) segid "BED" and resid 59 and name HE*) 3 300 2.700 2 200 peak 13111 weight (13131)	reald 59 and name HN)) reald 56 and name HD2%) 1 200 peak 13131 weight	resid 60 and name HN)) resid 59 and name HG1)) 1 900 peak 13161 weight	0eg1d	esid 32 and name HEI)) esid 32 and name HN)) 2 300 peak 13231 weight	resid 32	eald 32 and name HE1 }) eald 32 and name HE2 }) 1 600 peak 13241 weight	resid 32 and name HR1)) resid 30 and name HA)) 2.400 peak 13251 weight	cold 76 and name HN)) cold 77 and name HA)) 1 300 peak 13301 weight	(degid "BED " and resid 76 and name HN)) (degid "BED " and resid 77 and name HB1)) 4 100 4 100 1 400 peak 13311 weight (13651)	esid 56 and name HN)) esid 81 and name HGI%) 1.400 peak 13651 Weight	" and resid 56 and name HN)) " and resid 81 and name HG2t) 4 200 1 300 peak 13661 weight

7 759	2 889	4 346	4 079	0 756	658 0	8 159		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 470	4 941	1 558	3 575	8 655	7 489	7,616	2 654	2 454	: 60 10 10 10 10 10 10 10 10 10 10 10 10 10				1.069
8 832 ppm2	8 000 ppm2	7 735 ppm2	7 734 ppm2	8 178 ppm2	7 739 ppm2	8 480 ppm2		12 275 ppm2	152	9 151 ppm2	9 153 ppm2	8.169 ppm2	9 196 ppm2	9 133 ppm2	8 659 ppm2	9 187 ppm2	9 188 ppm2	9 072 banz	9			8 599 ppm2 9 023 ppm2
0 44203E+02 ppm1	0 44922E+02 ppm1	0 32086E+02 ppm1	0 61308E+02 ppm1	0 17971E+02 ppm1	0 80093E+01 ppm1	0 16166E+03 ppm1		0 51602E+02 ppm1	12673B+02	0 29023E+02 ppm1	0 12825E+02 ppm1	0 27022E+02 ppml	0 106028+03 ppm1	0 14311E+02 ppm1	0 49074E+02 ppm1	0 38565E-01 ppm1	0 24115E+02 ppm1	53379E+02	367628+03	C04083636		0.64/538+01 ppm. 0.546378+02 ppm.
0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	confort to poople	volume	volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.100008+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume (volume	omnion		volume
and name peak 15011 and name	and name peak 15041	and name and name peak 15071	15 and name HN }) 14 and name HB1 }) 10 peak 15081 weight	4 and name HN)) 11 and name HG2%) 10 peak 15111 weight	2 and name HN }) 3 and name HG1 }) 0 peak 15131 weight	and name and name peak 15141	8 and name HE1)) 0 and name HN)) 1 and name HB*)	and name and name peak 15171	and name and name peak 15191	9 and name HN)) 0 and name HB1)) 0 peak 15201 weight	9 and name HN)) D1 and name HD1%) 0 peak 15211 weight	7 and name HN)) 8 and name HB1)) 9 peak 15261 weight	s and name HN)) and name HN)) peak 15291 weight	and name HN)) and name H£22)) peak 15311 weight	t and name HN)) and name HE21)) peak 15361 weight	and name HN }} and name HRt } peak 15381 weight	and name HN)) and name HG)) peak 15391 weight	and name HN)) and name HN)) peak 15401 weight	and name and name peak 15421	and name HN }} and name HN }} peak 15441 weight	and name HN)) and name HD1%) Deak 15481 wearth	and name HN)) and name HA)) peak 15511 weight
((segid "BrD " and resid 49 4 000 4 000 1 500 ASE {15041} ({ segid "BrD " and resid 43	"BrD " and resid 42 4 000 1 500	rD and	segid "BrD " and resid 35 segid "BrD " and resid 34 3.800 3 600 1 700 {15111}	segid "BrD " and resid 34 segid "BrD " and resid 81 4 700 4 700 0.800 {15131}	<pre>6 segid "BrD " and resid 32 6 segid "BrD " and resid 33 5 400</pre>	({ segld "BED " and resid 31 (segld "BED" and resid 28 3 200 2 600 2 300 OR [15141] and resid 33	### ### ### ### ### ### ### ### ### ##	"BrD " and resid 3: "BrD " and resid 1:	{15191} segid "BrD " and resid 29 segid "BrD " and resid 31 segid "BrD " and resid 31 5 000 5 000 0 500	"BrD " and resid 29 "BrD " and resid 30 4 300 1 200	(segid "BrD " and resid 29 segid "BrD " and resid 101 5 000 5 000 0 500 p	"BrD " and resid 27 "BrD " and resid 28 4 400 1 100 1	"BrD " and resid 26 "BrD " and resid 24 3 100 2.000	"BrD " and resid 24 "BrD " and resid 24 4 900 0 600	"BrD " and resid 24 "BrD " and resid 24 4 000 1 500	"BrD " and resid 19 "BrD " and resid 75 5 500 0 000 0	"BrD " and resid 19 BrD " and resid 63 4 500 1 000	} "BrD " and reald 18 "BrD " and resid 21 3 800 1 600	} "BrD " and resid 17 "BrD " and resid 16 2 000 2 000	} "BrD " and resid 17 "BrD " and resid 20 3.100 2 000	1110	BrD " and resid 12 BrD " and resid 10 3 800 1 600
(, segid 4 000 ASSI {1504 () segid	(segid ") (A 000 ASSI (15071)	((segld "B ((segld "B 4 300 ASSI {15081}	({ segid "B ({ segid "B 3.800 ASSI {15111}	((segid (segid 4 700 ASSI (1513	((segid ((segid 5 400 ASSI {1514	((segid ((segid 3 200 08 [15141)	((segid ASSI (1516) (segid (segid (segid (segid	ASSI (1517) ((segid (segid (segid 3 900	ASSI (1519) ((segid ((segid 5 000 ASSI (1520)	(segid ((segid (segid 4 300 ASSI {15211	((segid (segid 5 000 ASSI {15261	((segrd ((segrd 4 400 ASSI (15291	((segid ((segid) 500 ASSI (15311	(segid (segid 4 900	(segid (segid 4 000 1 224	(megld (neegld 5 500	((segid ((segid (4 500	ASSI (15401 ((segid ((segid 3 900	ASSI {15421 ((seg1d ((seg1d 2.800	ASSI (15441 ((segid '(segid ') 3 500	ASSI (1548) ((segid (segid 5.500	(megid " (megid " (megid ") 3 900
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7 739	. 963	7	3 617	656	8 838	8 557 7 979	856 4	1 876	4 361	2 905	2 443	996 8	3 383	7 00 7	8 742	3 355	4 904	8 498	3 597	3 090	1 639	6 433
2wdd 699 8	A. 713 press		714	8 9 5		7 516 ppm2 6 979 ppm2	2 679 B	8 680 ppm2	8 611 ppm2	8 859 pm2	2 859 g	8 585 ppm2	8 584 ppm2	9 471 ppm2	8 997 ppm2	8 999 gpm2	9 359 ppm?	7 974 ppm2	9 037 ppm2	8.306 ppm2	8,305 ppm2	8 832 ppm2
76926E+02 ppm1	8E+02 ppm1					E+02 ppm1 E+02 ppm1		E+02 ppm1	:+02 ppm1	.02 ppm1	12 ppm1	2 ppm1	2 ppm1	12 ppm1	3 ppm1	2 ppm1	3 ppm1	2 ppm1	oz ppm1	02 ppm1	+02 ppm1	E+02 ppm1
7692	2259			9	1305	12435	5931	15701	15418	123554	0159E+0	0125E+0	6509E+0	8909E+0	3142E+0	3744E+0	5187£+0	3302E+0	1172E+)250E+(3655.	588
۰	110000E+01 volume 0 22598E+02					10000E+01 VOLUME 0 42435E+02 10000E+01 VOLUME 0 16164E+02		10000E+01 volume 0 45701E+02	10000E+01 volume 0 31541E+02	10000E+01 volume 0 21235E+02	10000E+01 volume 0 90159E+02	10000E+01 volume 0 40125E+02	10000E+01 volume 0 16509E+02	10000E+01 volume 0 18909E+02	10000E+01 volume 0 63142E+03	10000E+01 volume 0 33744E+02	10000E+01 volume 0 16187E+03	10000E+01 volume 0 53302E+02	10000E+01 volume 0 21172E+02	10000E+01 volume 0 30250E+02	10000E+01 volume 0 71559E+02	10000E+01 volume 0 14588
0 10000E+01 volume 0	N)) N)) eaght 0 10000E+01 volume	N)) B1))	HN))	Weight o locook-of volume	Weight U.ludubktol Volume HN)) HN))	Weight 0 100005+01 Volume HN)) Weight 0 100005+01 Volume	HA)) Weight 0 10000E+01 volume	HN)) HEt) Weight 0 10000E+01 volume HN))	HA)) Weight 0 10000E+01 volume HN))	HBZ)) Weight 0 10000E+01 volume HN))	HB1)) Weight 0 10000E+01 volume HN))	Weight 0 10000E+01 volume	Melght 0 10000E+01 volume	10%) weight 0 10000E+01 volume iN))	<pre>4N)) veight 0 10000E+01 volume tN))</pre>	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	HB1)) Weight o 10000E+01 volume HN))	HB2)) Weight 0 10000E+01 volume	H01%) Weight 0 10000E+01 volume	and name HD22)) and name HD22)) ak 15001 weight 0 100008+01 volume 0 14588E+02 ppml
reald 95 and name HN)) 1800 peak 14321 weight 0 100005+01 volume 0	name HN)) name HN)) 4331 weight 0 10000E+01 volume	eard 93 and name HN)) eard 93 and name HB) 0.900 peak 133%; wardhe 0 1000 peak 133%; wardhe 0 1000 peak 133%; wardhe 0 1000 peak 133%;	resid 87 and name HN)) [resid 89 and name HO21)	ceard 87 and name HN)) ceard 89 and name HN))	1 resid 85 and name HN)) i resid 85 and name HN)) i resid 87 and name HN))	Aravy peak 1447; weight o loodoE+01 volume eeld 80 and name HN)) 0.700 peak 1447; weight o loodoE+01 volume	ceald 79 and name HN)) ceald 77 and name Hs)) 0 700 peak 14521 weight 0 10000E+01 volume	reald 9 And mame HN)) reald 59 and mame HE 1	resid 74 and name HA)) 1 200 peak 14561 weight 0 10000E+01 volume resid 72 and name HN))	0 10000E+01 volume	To be and name HB1)} 1 900 peak 14611 weight 0 10000E+01 volume emid 64 and name HN))	resid big and name HN)) 1 400 peak 14661 weight 0 10000E+01 volume cend 64 and name HN))	0 700 peak 14681 weight 0 10000E+01 volume e91d 63 and name HN))	costd 74 and name HDt) 0 900 peak 14711 weight 0 10000E+01 volume resid 62 and name HN))	<pre>'eaid 61 and name HN)) 1 700 peak 14741 weight 0 10000E+01 volume eeld 62 and name HN))</pre>	and name HB2)} peak 14771 weight 0 10000E+01 volume and name HN)}	seid 35 and name HA)) 2 300 peak 14841 weight 0 10000E+01 volume sead 55 and name HN))	esid 59 and name HN)) 1 600 peak 14861 weight 0 10000E+01 volume eoid 54 and name HN))	and mame HB1)) peak 14891 weight 0 10000E+01 volume	1 200 peak 14981 weight 0 10000E+01 volume	1 800 peak 14991 weight 0 10000E+01 volume	resid 92 and name HN)) resid 89 and name HD22)) 0.600 peak 15001 weight

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0 759 3 811 4 143 4 143 4 721

2 042 ppm2	4.607 ppm2	3 274 ppm2	3 077 ppm2	4 704 ppm2	3 815 ppm2	4 654 ppm2	4 653 ppm2	3.669 ppm2	3 522 mm2		3 522 ppm2	4 459 ppm2	3 619 ppm2	4 409 ppm2	4 409 com2	2	S 000 ppm2	1 700 ppm2	2 093 ppm2	2 190 ppm2		4.901 ppmz	S 542 ppm2	5 542 ppm2	4.359 ppm2	, 4 361 ppm2
0.47548E+03 ppml	0 20830E+03 ppm1	0 213058+03 ppml	0 21514E+03 ppm1	0 22249E+03 ppm1	0 23254E+03 ppm1	0 45818E+03 ppm1	0 31584E+03 ppm1	0 94493E+02 ppm1	0 18471E+03 ppm1		28741E+03	0 23932E+03 ppm1	0 285555+03 ppml	17185E+03 ppm1	16898E+03 ppm1		36354E+03 ppml	76123E+03 ppm1	87848E+03 ppm1	0 10742E+04 ppm1	200		27701E+03 ppm1	169228+03 ppm1	10996E+03 ppm1	881265+02 ppml
0.11000E+01 volume 0.47548E+03 ppm1	11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	0.11000E+01 volume	0.11000E+01 volume	11000E+01 volume	1	oon noo	11000E+01 volume (11000E+01 volume (11000E+01 volume 0	0.11000E+01 volume 0		0 11000E+01 volume 0	0 11000E+01 volume 0	0.11000E+01 volume 0	0.11000E+01 volume 0	0		0.11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0
and name HG2*) peak 242 weight	and name HA)) and name HB1)) peak 262 weight	and name HB1)) and name HA)) peak 322 weight	and name HB2)) and name HA)) peak 332 weight (and name HA)) and name HB2)) peak 352 weight (and name HB1)) and name HA)) peak 362 weight (and name HA)) and name HB1)) peak 382 weight (and name HA)) and name HB2)) peak 392 weight o	and name HB1)) and name HA)) peak 422 weight o	and name HB2)) and name HA)) peak 432 weight 0	and name HB1)) and name HA))	name name	492 name	502	and name HA)) and name HB1)) peak 522 weight 0	and name HA)) and name HB2)) peak 532 weight 0	name HA))	562 weight	name KA }) 592 weight	and name HB%) and name HA)) peak 612 weight 0	and name HB t) and name HA)) peak 632 weight 0	name name	name name	662 weight	name 672	and name HA)) and name HB1)) peak 702 weight 0	and name HA)) and name HB2)) peak 712 weight 0
resid 81	eard 15	resid 46 resid 46 1 800	esid 46 esid 46 1 800	esid 47 esid 47 1 800	rD " and resid 47 rD " and resid 47 1 700 1.700	resid 67	esid 67 esid 67 1 600	esid 68 esid 68 2 400	rD " and resid 68 rD " and resid 68 1 800 1 800	eald 88	resid 95	1 700 esid 95	1 700	(segid "BrD " and resid 96 (segid "BrD " and resid 96 2 800 2 000 2 000 pr	and 96 1814 96 2 000	esid 31	1 600 resid 43	1 200	esid 76 esid 76 1 100	esid 99 1 000	esid 113 esid 113 1 100 pe	reard 34	1 700 eard 34	2,000	esid 74 2 200	" and resid 74 " and resid 74 400 2 400
(segid "] 2 300 ASSI (262)	((pegid ") ((pegid ") 2 700 ASSI { 322}	((segid "E ((segid "E 2 700 ASSI { 332}	{	((segid "E ((segid "E 2.700 ASSI (362)	((segid "B ((segid "B 2 600 ASSI (382)	({ segid "B ({ segid "B 2 400 ASSI { 392}	((segid "B ((segid "B 2 500 ASSI (422)	((segid "B ((segid "B 3 100	(segid "B (segid "B (segid "B 2 700	ASSI { 472} ((segid "B ((segid "B	ASSI { 492 } (Begid "B (Begid "B ())	2 600 ASSI (502) ((segad "B	((segid "B 2 600 ASSI { 522}	((segid "B ((segid "B: 2 800	((segid B) ((segid B) (2800	ASSI { 562} (segid "Bi (segid "Bi	2 500 ASSI { 592} (segid "Bi	({ megld "BrD " and 1 2 200 1 200 ASSI (612)	(segid "B) ((segid "B) 2 100 ASSI (632)	. 6 8 7	ASSI (642) ((segid "BID " and (segid "BID " and 2.100 1 100	ASSI { 662} ({ see3id "BrD " and r	2 600 ASSI { 672} ((segid "Br	((segid "BrD 2.800 2 ASSI { 702}	(segid BID and r (segid BID and r 3 000 2 200	segid 3 100
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4.288	4 281	2 167	4 471	4 556	4 556	4 411	2 792		7 505		7 506		,	/97 /	4 766	4 801	4 786		9	4 670	4 617	0 792	1 076	-	2	1 079
2wdd 588 8	8 924 ppm2	11 082 ppm2	6 632 ppm2			3 473 ppm2	5 642 ppm2		3 127 ppm2		2 733 ppm2			zwidi 160 T	5 003 ppm2	4 603 ppm2	5 344 ppm2	Cannot Obe A		4 901 ppm2	5 050 ppm2	4 162 ppm2	1 751 ppm2	0 808 C		2 042 ppm2
0 99597E+01 ppml	0 14339E+02 ppm1	0 61547E+02 ppml	0 20420E+02 ppm1	0 39185E+02 ppm1	0 32055E+02 ppm1	0 54263E+02 ppm1	0 54091E+02 ppm1		0 57563E+02 ppm1		0 10961E+03 ppm1		1 02042E402		0 10291E+04 ppm1	0 21120E+04 ppm1	0 29221E+03 ppml	0 30042E±03 rrm1		0 10650E+04 ppml	0 83585E+03 ppm1	24356E+03 ppm1).41156E+03 ppm1	599732+03		0,37056E+03 ppml
0 100008+01 volume	0.10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume		0 11000E+01 volume		0 11000E+01 volume		0 11000E+01 volume) 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	11000E+01 volume		0 11000E+01 volume	0 11000E+01 volume (0 11000B+01 volume 0	11000E+01 volume 0	0.11000E+01 volume 0		11000B+01 volume C
and name and name peak 15531	and name HN)) and name HD2)) peak 15551 weight	and name HE1 }) and name HD2 }} peak 15631 weight	and name HN)) and name HA)) peak 15641 weight	and name HB1)) and name HD1)) peak 27052 weight	and name HB2)) and name HD1)) peak 27062 weight	and name HB2 }} and name HD2 }} peak 27072 weight	and name HA)) and name HG1)) peak 26992 weight	name	and name HG1)) and name HD#) peak 26732 weight (name	HB2)) HD4) weight	and name HB1)) and name HD%)	and name HB%) and name HE%) beak 19122 weight	HA))	eak 2	eak 22 weight	and name HA }) and name HB1 }) peak 32 weight 0	and name HB2 }) and name HA }) peak 62 weight 0	name HA))	<pre>peak 72 weight 0 7 and name HA)) 7 and name HB1))</pre>	eight A))	name HG2%) 112 weight	and name HB)) and name HG1%) peak 132 weight 0	and name HG2%) and name HB)) peak 152 Weight 0	HB))	and name HB))
வ வ	and resid 7 and resid 8 900 0 600	1 700	resid 67 resid 62 0 900	send 89	(segid "BrD " and resid 89 (segid "BrD " and resid 91 3 400 1 800 k	181d 89	send 89	881d	2 200		eard 94 eard 95 2.200	O " and resid 94	ssid 43 1.600	1814 93	1 100 said 10	008	1 600	1 600	1814 20 1814 20	1 10 1 10 1 10 1 10	1 100	1 700 pc	814 38 1 400 pe	resid 38	resid 81 resid 81	.400 1 400
((segid "B ((segid "B 5 200 ASSI {15551}	((segid "B ((segid "B () 4 900 ASSI [15633]	(segid "BrD " (segid "BrD " 3 800 3 3 800 3	((segid "BrD " and ((segid "BrD " and (segid "BrD " and segid " and segid " and segid "	((segld "B) ((segld "B) ((segld "B)	((segld "B) (seg	(segid "BrD " and r (segid "BrD " and r (segid "BrD " and r 3 400 2 900	(segid "BrD " and z (segid "BrD " and z 3 400 2 900	(segid "BrD " and re ((segid "BrD " and re (26732)	((segid "BrD " and r (segid "BrD " and r 3 300 2 700 OR [26732]	((segid "BrD " and r	((segid "BrD " and ro (segid "BrD " and ro 3 000 2 200 OR {26822}	((segid "Br (segid "Br ASSI (19122)	Begin	ASSI { 2} ({ segid "BrD " and a ({ segid "BrD " and a	2 100 ASSI { 22} ((segid "Br)	1 800 ASSI (32)	((segid "Br) ((segid "Br) 2 500 pset (501	((segid "Bri ((segid "Bri 2 500	ASSI { 72} ((segid "Bri ((segid "Bri	2 100 ASSI { 92} ((segid "Bri ((segid "Bri	2 100 1,100 ASSI { 112} ((segid "BrD " and re	ASSI (132)	(1 megld "Bri (megld "Bri 2 400	1 132) segid "Br aegid "Br 2 300		ASSI (242) ((8eg1d "BrD

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and name HA 1) And name HB1) And name HB1)			<pre>9egid "BrD " and resid 70 and name 2 900 2 100 2 100 peak 1212 [1222]</pre>	0 11000E+01 volume	0 13310E+03 ppm1	1 305 ppm2
end name	. 755 ppm2 3	698	((segid "BrD " and read 78 and name HBl)) (segid "BrD " and read 76 and name HD2*) 2 700 1 800 1 800 peak 1222 weight	0 11000E+01 volume	0.22009E+03 ppml	1 305 ppm2
752 name	755 ppm2 3	573 A	6-21d "BrD " and resid 78 and name ocgid "BrD " and resid 78 and name 2.400 1 400 peak 1262	0 11000E+01 volume		
and name HEA)) and name HEA))	4.558 ppm2 3	A) 916	12823 (1282) (1282) (1282) (1282) (1282) (1282) (1282)	0 11000E+01	38399E+03	0 761 ppm2
1 700 peak 802 weight 0 11000E+01 volume egs4 107 and name HB1)) egs4 107 and name HA))	557 ppm2	3,702	Assit 1202 " and resid 78 and name HD18) ({ segid "BrD " and resid 78 and name HB2 }) 2 500 1 700 1 700 peak 1302 weight	0 11000E+01 volume	0.25846E+03 ppml	0 761 ppm2
1 200 peak 842 weight 0 11000E+01 volume 0 reald 65 and name HA)) resid 65 and name HB1))	671 ppm2 4	435	1 (4.02) and resid 78 and name HD11) (segid "BrD" and resid 78 and name HG)) 2 200 1 200 peak 1312 weight	0 11000E+01 volume	0 70030E+03 ppml	0 761 ppm2
peak 872 weight 0 11000E+01 volume and name HA) and name HB2))	398 ppm2 3	•	((segid "BrD " and resid 115 and name HA)) ((segid "BrD " and resid 115 and name HB1)) 2.200 1 200 1 200 peak 1322 weight ASSI { 1352}	0 11000E+01 volume	0 70481E+03 ppm1	4 807 ppm2
2.100 peak 882 csid 84 and name esid 84 and name	396 ppm2 3	369 80	eegid "BzD" and resid 115 and name seegid "BzD" and resid 115 and name 3.300 2 700 2 200 peak 1352 { 1362}	0 11000E+01 volume	0 57522E+02 ppml	1 352 ppm2
Too peak 902 weight 0 11000E+01 volume 0 23539E+03	r cudd	ĸ	resid 115 and name resid 115 and name 1 400 peak 1362	0.11000E+01 volume	0 44618E+03 ppm1	1 352 ppm2
esid loo and name HRZ)) esid loo and name HRZ)) esid loo and dame HRZ) 10 20 peak 24 weight 0 11000B+01 volume 0 53744E+03 peml 3	DDM2		Degid "BrD and resid 116 and 2.700 1 800 peak [1402]	0 11000E+01 volume	0 19754E+03 ppml	2 411 ppm2
cend 10 and mame HA)) send of and mame HA) 100024-01 volume 0 \$12548+02 ppml 5	ppm2		2.200 1 200 1 200 peak 1402 (1422) and result 116 and name 2.400 and result 116 and name 66414 "BID" and result 116 and name	0 11000E+01 volume	0 69185E+03 ppm1	2 409 ppm2
## (1972 Fig. 1972 Fig. 19	ppm2 3		esid 116 and name 1.600 peak 1422	0 11000E+01 volume	0 30727E+03 ppml	1 920 ppm2
### ### ### ### ### ### ### ### #### ####			segid "BrD " and resid 116 and name 2.500 1 600 peak 1432 [1442]	0 110008+01 volume	0 32118E+03 ppm1	1 403 ppm2
said 117 and name HR2 3)	r rudd		segid "BrD" and resid 116 and name aggid "BrD" and resid 116 and name 2 300 1 300 1.300 peak 1442 [1452]	0 11000E+01 volume	0 50062E+03 ppm1	1 403 ppm2
and 117 and name HR1) sead 117 and name HR1)	ppm2		segid "BFD " and resid 116 and name egid "BFD " and resid 116 and name 2 100 1 100 peak 1452 { 1462}	0 11000E+01 volume	0 85569E+03 ppml	1 399 ppm2
1044 Weight 0 11000E+01 Volume 0 23430E+03 ppml 3 name HA)) name HA)) 10000E+01 Volume 0 13056E-03 ppml 5 052 Weight 0 11000E+01 Volume 0 13056E-03 ppml	ν .		name name L462	0 11000E+01 volume (0 33669E+03 ppml	1.399 ppm2
1914 69 and name HA))	n andd		segid "BrD " and segid "BrD " and 2.400 1 400 { 1542}	0.11000E+01 volume (0.40202E+03 ppm1	Z 338 ppm2
a coopean loss weight visioustal volume 0 16/2/8+03 ppml 5 included a and name HG))	641 ppm2 3 491			0 11000E+01 volume 0	74299E+03 ppml	1 251 ppm2
2 400 peak 1052 weight 0 11000E+01 volume 0 85824E+02 ppml 3 resid 1a and name HD24)	866 ppm2 2 277		segid 'BrD ' and resid 110 and name HG2% (segid 'BrD " and resid 110 and name HB)) 2.20	0 11000E+01 volume 0	704538+03 ppm1	1 252 ppm2
1 100 peak 1132 weight 0 11000E+01 volume 0 86347E+03 ppml 0 east 10 and name NIZ2t) east 10 and name NIZ)	415 ppm2 3 883	33 (1)	1.300 1.700 1.700 1.700 1.500 1.500 1.70	0.11000E+01 volume 0.	.27736E+03 ppm1	1 253 ppm2
1 600 peak 1142 weight 0 11000E+01 volume 0.31482E+03 ppm1 0 esid 78 and name HA))	419 ppm2 2 274		1 1 127 1 8 127 and read 110 and name HG2\$ segid "BrD" and read 110 and name HD1\$ 2 000 1.000 1.000 peak 1572 weight 1 1600 1.000 Peak 1572 weight	0 11000E+01 volume 0	13448E+04	1 254 ppm2
1.600 peak 1162 weight 0.11000E+01 volume 0.33654E+03 ppml 3 sold 78 and name HA))	ppm2 1	A ASSI	segad "BED" and resid 110 and name HD14) { segad "BED" and resid 110 and name HA }) 2.300 1.200 1.200 peak 1602 weight (f 1612)	0 11000E+01 volume 0	74125E+03 ppml	1.154 ppm2
Frak 1172 weight 0 11000E+01 volume 0 14454E+03 ppm. 3 and name HB1)	967 ppm2 1 270	ميت	6egid "BrD " and resid 110 and name HD1t) (segid "BrD " and resid 110 and name HB)) 2 200 1 200 1 200 peak 1612 weight 1 1.000	0 11000E+01 volume 0	75209E+03 ppm1	1 154 ppm2
1.800 peak	305 ppm2 4 001		(segid "BrD " and resid 110 and name HD1*)			

6 6 6	7.6.7	2.947	3.127	4 798	4.874	878		4 670	4 670	\$ 049	5 445	4 417		2 738	4 810	4 638	4 638	2.347	2 573	3 670		3.670	2 279	4.901	282		4 280
4 607 nom2		2 684 ppm2	4 830 ppm2	2 816 ppm2	3 030 ppm2	2 782 ppm2		2 980 ppm2	2 832 ppm2	2 880 ppm2	2 781 ppm2	3 033 ppm2		4 810 ppm2	2 980 ppm2	3.124 ppm2	3 068 ppm2	3 913 ppm2	3 913 ppm2			2 140 ppm2	3 769 ppm2	3 422 ppm2	1 994 ppm2		1 848 ppm2
0 21076E+03 ppm1		0 51152E+03 ppm1	0 21281E+03 ppm1	0.46860E+03 ppm1	0.134358+03 ppml	.35437E+03 ppml		50496677	17452E+03 ppml	437945+03 ppml	28226E+03 ppml	27675E+03 ppm1	4	11521E+04 ppml	.24467E+03 ppml	32948E+03 ppm1	0.37520E+03 ppm1	34874E+03 ppml	17327E+03 ppm1	22458E+03 ppm1		35872E+03 ppm1	0.51278E+03 ppml	13495E+03 ppm1	22859E+03 ppm1		0.18482E+03 ppml 0.28966E+03 ppml
0 11000E+01 volume (0 11000E+01 volume (0 11000E+01 volume (0 11000E+01 volume C	0 11000E+01 volume C	0.11000E+01 volume 0			0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	11000E+01 volume 0	0 000000011	volume	11000E+01 volume 0,	11000E+01 volume 0	11000E+01 volume 0.	11000E+01 volume 0	0.11000E+01 volume 0	11000E+01 volume 0		11000E+01 volume 0	11000E+01 volume 0.	11000E+01 volume 0	11000E+01 volume 0		11000E+01 volume 0.
segid "BrD " and resid 112 and name HG1)) 2 700 1.800 1 800 peak 2052 weight	resid 112 and name	0cgid "BrD " and resid 112 and name 2.300 1.300 1.300 peak 2072 4.2092 RrD " and resid 64 and home	2 700 1 800 1.800 peak 2092	(pegyd "BrD" and read 92 and name KD1) (legyd "BrD" and read 92 and name HD) (legyd "BrD" and read 92 and name HD) ASS 100 1 400 1 400 peak 2112 weight ASS 1 2142	((angald "BrD" and recoid 87 and names HQl)) ((angald "BrD" and recoid 87 and numes HA)) Assrt (2000 2 100 2 100 peak 2142 weight)	segid "BrD" and resid 87 and name HG2)) segid "BrD" and resid 87 and name HA)) 2 500	esid 61 and name HG1)) esid 61 and name HA))	61 and name HG2))	2 000 peak 2182 eaid 42 and name	Segan 'BID' and resid 42 and name HA }) 2 400	segid "BrD" and resid 36 and name HA)) 2 600 1 700 1 700 peak 2222 weight { 2252}	((eegy4 "BrD" and resid 79 and name HGl)) ((eegy4 "BrD" and resid 79 and name HR))) 2 60 1700 1 700 1 700 peak 2252 weight 0	(segad "BED" and resid 29 and mame HA)) (segad "BED" and resid 29 and name HBI)) 2 000 1 000 ness 252 and ness 100 ness 252 and nes		1 700 peak 2272 resid 23 and name	2 500 1 600 1 600 peak 2302 { 2312 } 8691d "BrD" and reold 23 and name	segid "brb" and resid 23 and name 2 400 1 400 1 400 peak 2312 4 2322	((wegal "sr)" - And Yeard 60 and name HD3)) ((megal "sr)" - And Yeard 60 and name HD3)) ((megal "sr)" - And Yeard 60 and name HD1)) ASSI 200 1 600 1 600 peak 2132 weight 0 ASSI 2342	pegid "BrD " and resid 80 and name HD2)) 96gid "BrD " and resid 80 and name HB1)) 2.800 2 000 2.000 peak 2342 weight	- 8 8 4.	and resid 65 and name	2} 1 cou 1.500 peak 2382 SrD and resid 9 and name short and name	segid "BrD" and resid 9 and name 2 300 1 300 peak 2392 (432) eegid "BrD" and resid 35 and name	segid "BrD" and regid 35 and name RA)) 2 900 2 100 2 100 peak 2432 weight 0 [2442]	((segid "BED" and resid 102 and name HBI)) ((segid "BED" and resid 102 and mame RA) 2 700 1 800 1.800 peak 2442 weight o	reeld 102 and name HB2)) keeld 102 and name HA))	peak 2452 Weight 0 and name HB1 }} and name HD1t) peak 2462 Weight 0
	1 826	1 408		3 F 8 - 0	466 0	4 518	1 825	1 409	0 838	1 578		1 578	1 609	4 265	2 536	1 806	2 467	2	1.806	1 221	1 588	1 222	2.357		2 508	2 355	1 588
	1 154 ppm2 1 826	1 154 ppm2 1 408		zwad ccz	1 154 ppm2 0 994		1 006 ppm2 1 825				•	ppm2					1 550 ppm2 2 467		1 550 ppm2 1.806			1 648 ppm2 1 222	1.598 ppm2 2.357				1 205 ppm2 1 566
×	0 14989E+03 ppml 1 154 ppm2 1	0 49711E+03 ppm1 1 154 ppm2 1	1 man CV 1 CV 2	and cer t	0 45288E+03 ppml 1 154 ppm2 0	0 43004E+03 ppml 1.006 ppm2 4	0 61685E+03 ppml 1 006 ppm2 1	0 16808E+03 ppml 1.008 ppm2 1	0 40990E+03 ppml 1 006 ppm2 0	0 20691E+03 ppm1 4 261 ppm2 1	O SAMEORAN WANTED	T zudd / rc z	0 239588+03 ppm1 2 444 ppm2 1	0 44149E+03 ppml 1 596 ppm2 4	0 72150E+03 ppm1 1.600 ppm2 2	0 60307E+03 ppml 1 598 ppm2 1	0 50142E+03 ppm1 1 550 ppm2 2		0.711798+03 ppml 1 550 ppm2	0 16491E+03 ppm1 4 359 ppm2 1	0 840088+02 ppml 2 487 ppm2 1	0 32478E+03 ppml 1 648 ppm2 1	0 24142E+03 ppml 1.598 ppm2		0 29387E+03 ppml 1.206 ppm2 2	0 44094E+03 ppm1 1.205 ppm2 2	0 498708+03 ppm1 1 205 ppm2 1
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	87442E+03 ppm1	0.31692E+03 ppml	0.10458B+04 ppml	17232E+03 ppm1	0 97545E+03 ppml	91418E+02 ppm1	34161E+03 ppml	22305E+02 ppml	37229E+03 ppm1	28447010		21730E+04 ppml	0 29577E+04 ppm1	50164P403 mm1	3	0 61125E+03 ppml	52974E+03 ppm1		0.30326E+03 ppm1	22719E+03 ppml	23490E+03 ppm1	22693E+03 ppm1		13036B+03 ppml	49629&+03 ppml	24556E+03 ppml	0 14893E+03 ppm1
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d resid 104 and	and resid 104 and name and resid 107 and name	1 600 peak 3272 seld 111 and name	1 100 peak 3292 setd 111 and name	2 800 2 000 2 000 peak 3312 4 3332 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 100 1 100 1 100 peak 3332 (3362) and reeid 19 and name seqiq "BFD" and reeid 19 and name seqiq NP" and resid 19 and name	3 100 2 400 2 400 peak 3362 weight (3372) segid SEC and read 19 and name HB1))	2 500 1 500 1 600 peak 3372 weight [3382] Segid Bub " and read 19 and name HBI]	neglu	<pre>segid "BrD " and resid 19 and name 2 400</pre>	egid "BrD " and resid 19 and name HG1)) egid "BrD " and resid 19 and name HE1)) 600 1 700 1 700 peak 3402 weight	seld 19 and name HD1))	800 0 800 0 800 peak 3412 weight 3422} 342d "BrD" and reald 60 and name HA))	1700 0700 0700 peak 3422 weight (3452)	<pre>uegid "bfD" and resid 11 and name HB1 }] segid "BfD" and resid 11 and name HA }) segid "1300 1300 peak 3452 weight</pre>	esid 11 and name HB2))	2 300 1 300 1.300 peak 3462 { 3492} segld "BrD" and resid 97 and name	##910 "BYD" and resid 97 and name HB1)) 2 300 1 300 1.300 peak 3492 weight 2 3522}	segid "BrD " and resid 109 and name HE2)) segid "BrD " and resid 109 and name HD1)) 2 500 1 600 1 600 resk 1837 mach	1 000 peak 3934 Weight 681d 109 and name HE2))	2 700 1 800 1.800 peak 3542 { 3552 } oegid "BrD" and resid 109 and name	segid "BrD " and resid 109 and name 2 600 1 700 1 700 peak 3552 { 3522}	906-	dresid 86 and name HEl))	100 2 100 peak 3602 weight and resid 86 and name HDI))	2 300 1 300 1.300 peak 3612 [3622] acgld "BrD " and resid 86 and name	negla 'BID' and resid 86 and name HEL)) 2 600 1 700 1 700 peak 3622 weight (3632) 8091d 'BID' and resid 86 and name HA))	2 800 2 000 Feel 00 2 000 Peek 3632 weight [1862] 86512 weight [1862] 86514 "BrD" and reald 8 and name HOI])

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2 342	4 940	2 385	3 447	3 447	368		2.694	7,02		7 4994	2 159	2 062	2 155	2 466	3 453	1 637	,			4 533	2 290	4 800	2 172	2 149	2.321
2 781 ppm2	2 236 ppm2	4 953 ppm2	2 781 ppm2	2 838 ppm2	1 549 ppm2		4 606 ppm2	zwdd ong T		rudd cco t	4 655 ppm2	4 655 ppm2	1 401 ppm2	1 401 ppm2	2 989 ppm2	4 412 ppm2				5 444 ppm2	3 571 ppm2	2.110 ppm2	3.569 ppm2	4.653 ppm2	4 653 ppm2
10618E+04 ppm1	152748+03 ppml	39636B+03 ppml	27554E+03 ppm1	105228+03 ppm1	819398+03 ppm1			Tudd co+grosss			34201E+03 ppm1	16298E+03 ppml	12176E+03 ppm1	78049E+03 ppml	0.20235E+03 ppml	28433E+03 ppm1	5			13412E+03 ppm1	17529E+04 ppm1	42230E+03 ppm1	69710E+03 ppm1	10760E+04 ppm1	0 13416E+04 ppm1
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regid 36 and name 1.100 peak 4512	esid 9 and 2.000 peak	resid 9 and name HA)) resid 9 and name HB2)) 1 400 peak 4582 weight	resid 35 and name HB2)) resid 35 and name HG1)) l.700 peak 4592 weight	resid 35 and name HB1)) resid 35 and name HG1)) 2 200 peak 4602 weight	resid 73 and name HD1%) resid 73 and name HG)) 1 100 peak 4632 weight	resid 56 and name	seid 22 and eat 22 and 22 and	esid 22 and name	eald 14 and name said 14 and name 1 400 peak 4722	esid 14 and name	1.600 peak 4732 eald 14 and name	2 000 peak 4742 2 010 peak 4742	4752	and name peak 4762	resid 24 and name HB2)) resid 24 and name HG1)) 1 800 peak 4782 Weight	resid 25 and name HA }) resid 25 and name HG24) 1 700 peak 4812 weight	name name 4822	and name and name peak 4832	and name and name	and name HE1	101 peak 4862 00 peak 4862 57 and newe	and name peak 4912	resid 97 and name HE1)} resid 97 and name HG2)} 1 200 peak 4922 weight	resid 109 and name HA)) resid 109 and name HB2)) 1 000 peak 4932 weight	resid 109 and name HA)) resid 109 and name HB1)) 1 000 peak 4942 weight
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name HOI)) Name HOI)) Lane HOI))	Seald 60 and name HDI })	Accordment for weight of indosers defined a 2.23428403 pgml 3 956 ppml 2 2.24428403 pgml 3 956 ppml 2 2 2.24428403 pgml 3 956 ppml 3 958 ppml 3	4412 weight 0 11000E+01 volume 0 25152E+03 ppml 4 263 ppm2 2 2 name HA))	1 700 peak 4122 weight 0 11000E+01 volume 0 21015E+01 ppm1 4 263 ppm2 2 sead 101 and hame EA))	1.600 peak 4132 weight 0.11000E+01 volume 0.31941E+03 ppml 4.261 ppm2 1.	active so and thank made in 11000E+01 volume O 50428E+03 ppml 1.058 ppm2 4 142 week H724)	name Nh) 462 weight o 11000E+01 volume o 18926E+03 ppml o 761 ppm2 name HO11)	Bead 81 and name HA)) 1 059 ppm2 204 69 and name HB))	and name St.) 1 perd name St.) 1 perd name St.) 1 perd 110008-01 volume O 678698-03 ppml 2 929 ppm2 4 and name St.) 1	read 18 and name HB1)) 2 000 peak 4222 weight 0 11000E+01 volume 0 15123E+03 ppm1 3 866 ppm2 2 send 11s and name 10 11	resid 116 and name HD1) 1	Fabra 110 and name HB) 2 404 peak 4282 weight 0 11000E+01 volume 0 90397E+02 ppm1 2 138 ppm2 1	reals 50 and name (A)) (reals 50 and name (A (11)) 1 700 peak 4302 weight 0 11000E+01 volume 0 24102E+03 ppml 4 506 ppml 1	esad 50 and name HB)) esad 50 and name HG12)	1 dou peak 4322 weight 0 110006+01 Volume 0 209388+03 ppml 1 797 ppm2 eeald 50 and name HB))	peak 4332 weight 0 11060E+01 volume 0 2087EE+03 ppm. 1 797 ppm.2 1 and name HE))	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	and name HB 1) 1 s00 peak 4382 weight 0 11000E+01 volume 0.19816E+03 ppm1 4 359 ppm2 2 1 s00 peak 4382 weight 0 11000E+01 volume 0.19816E+03 ppm1 4 359 ppm2 2 and name 14 1)	6024d 21 and name HG12) 1.700 pend 4352 weight 0 11000E+01 volume 0 25235E+03 ppnl 6 358 ppm2 1 6234d 21 and name 11	resid 21 and hamme HG11) / 1 700 peak 4402 Veright 0 11000E+01 Volume 0 24995E+03 ppml 4 358 ppm2 2	<pre>CD * and Zreald 21</pre>	fD " and reald 21 and name MU12))	4 uou peak 44.2 weight 0 11000E+01 volume 0 17027E+03 ppm. 1 642 ppm2 renaid 21 and name HG011)	1.200 peak 4482 veight 0 110008+01 volume 0.65087E+03 ppml 1.642 ppml renid 2, and name 4021	1 400 peak 4502 weight 0 11000E+01 volume 0.395828+03 ppml 1 596 ppm2 4 reeld 36 and name HG1))

. 4	4 687	1 796	1 946	4 468	4 68	3 606	3 606	1 945	1 795	4 463	3 654	3 533	4 517	2 847	2.847	2 931	2.931	3 530	4 507	4 297	1 964	3 572	4 911
2 780 ppm2	2.487 ppm2	4. 60				1 946 ppm2	1 796 ppm2	3 577 PPm2	3 577 ppm2	3 578 ppm2	5 592 ppm2	5 592 ppm2	3 228 ppm2	3 227 ppm2	3 523 ppm2	3 523 ppm2	3 227 ppm2	4 509 ppm2	1.989 ppm2	1 989 ppm2	5 543 ppm2	2.436 ppm2	3.137 ppmz
0.77735E+03 ppm1	13443E+03 ppm1	54723E+03 ppml	6	20757E+03 ppml	37628E+03 ppm1	0.16452E+03 ppm1	40668E+03 ppm1	0 36659E+03 ppml	38417E+03 ppml	20141E+03 ppm1	.31370E+03 ppm1	16779E+03 ppml	19830E+03 ppm1	27353E+03 ppm1	48028E+03 ppm1	0.21586E+03 ppm1	21836B+03 ppm1	16121E+03 ppml	12463E+03 ppml	0.27005E+03 ppml	0.102908+03 ppm1	89029E+02 ppm1	0 39102E+03 ppm1
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and name HA }) peak 5282 weight 0	and name HG2)) and name HA)) peak 5292 weight 0.	and name HA }) and name HG2 }) peak 5302 weight 0	name name 5312	and name HB1)) and name HA)) peak 5332 weight 0		and name HG1)) and name HD1 }) peak 5372 weight 0	name HG2)) name HD1)) 5382 weight	name HD1 }) name HB1)) 5392 weight	name HB2)) 5402 weight	name HD1)) name HA)) 5412 weight 0	name HA) name HB1) 5422 weight 0	name HA)) name HB2)) 5432 weight 0	name HG2)) name HA)) 5462 weight	name HB2)) 5482 weight	name HSL)) name HB2)) 5492 weight 0	name HG1)) SS02 weight 0	name HGZ /) name HBI /) 5512 weight 0	name HA)) name HG1)) 5522 weight 0	name HB2)) name HA)) 5542 weight 0	name HB2)) name HA)) 5552 weight 0	and name HA)) and name HB2)) peak 5582 weight 0)	and name HG1)) and name HE1)) peak 5592 weight 0)	and name HG2)) and name HA)) peak 5622 weight 0)
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1 039	1 270	1 079	2 278	2 137	1 324	1.483	2 594	4 825	1 538	1 538	1.539	1 648	2 702	2 361	2 424	5. 5. 5. 5.		3 637	4.998	4 949	4 522	3 906	3 621	4 014
0 662 ppm2	0 662 ppm2	3 867 ppm2	1.057 ppm2	0 418 ppm2	2.141 ppm2	2 583 ppm2	4.805 ppm2	1 549 ppm2	2.685 ppm2	1.994 ppm2	2 339 pm2	4 706 ppm2	1 648 ppm2	1.648 ppm2	1 498 ppm2	1.649 ppm2		2 140 ppm2	3 631 ppm2	3 455 ppm2	4 600 ppm2	S 001 ppm2	5.000 ppm2	4 804 ppm2
ume 0 24706E+03 ppm1	ume 0 60283E+03 ppm1	uma 0 278108+03 ppmı	ume o 229168+03 ppml	ыте O 25721E+O3 ppml	ume 0 47853B+03 ppml	Ime 0 54334E+03 ppml	ıme 0.44904E+03 ppml	ume a 305606+03 ppm.1	ime 0 20480E+03 ppml	ıme 0 13067E+03 ppm1	ıme O 52968B+03 ppm1	ume 0 33531E+03 ppm1	me 0 37274E+03 ppml	me 0 771658+03 ppm1	me 0 24631E+03 ppm1	0 21403E+03		•	mc 0 30900E+03 ppml	me 0 94220E+03 ppm1	me 0.97579E+03 ppml	me 0.21987E+03 ppml	me 0 16015E+03 ppml	me 0 168215+03 ppml
0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000K+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume			0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	11000E+01 volume
resid 78 and name HB2)) 1 700 peak 5922 weight	and name and name peak 5932	and name and name peak 5962 and name	1ame 5982	18me 5992	name 6002	name name 6012	resid 73 and hame HA)) resid 73 and name HB1)) 1 400 peak 6052 weight resid 73 and name HD1%)	and name peak 6072 and name	and peak and	and name peak 6122	and name and name peak 6162	resid 22 and name HA)) xesid 22 and name HD1*) 1 600 peak 6212 weight	resid 22 and name HDIt) resid 22 and name HBI)) 1 400 peak 6232 weight	resid 22 and name HD1%) resid 22 and name HG)) 1 200 peak 6242 weight	resid 63 and name HD2t) resid 63 and name HG)) 1 700 peak 6272 weight	resid 63 and name HD1*) resid 63 and name HG)) 1 800 peak 6282 waight	and name HG2)) and name HD2))	name HD2))	5352 18me	eak 6392 and name	412 412	and name peak 6432 and name	and name peak 6442 and name	resid 98 and name HBI)) 2 000 peak 6492 weight (
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		0.56353E+03 ppm1 0 18150E+03 ppm1	27608B+03 ppm1	0 121956+03 ppm1		0 334//E+03 ppm1 0 42344E+03 ppm1		24171E+03 ppm1	83932E+03 ppm1				0 23002E+03 ppm1	0 10358E+04 ppml	18918E+03 ppm1	75991E+02 ppm1	0 18381E+03 ppml	0 18369E+03 ppm1	0 24752E+03 ppml	0 96122E+03 ppml	91489E+03 ppm1	.28227E+03 ppml	0.18293E+03 ppm1	
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{ 5532} oeejid "BrD " and resid 59 and name eegid "BrD" and resid 59 and name	peak 5632 and name and name	and name and name and name	and resid 57 and name and resid 57 and name 700 1 700 peak 5672	esid 57 and esid 57 and 2 100 peak	esid 57 and esid 57 and 1 600 nest	esid 57 and esid 57 and 1.400 peak	and and peak	esid 57 and esid 57 and 1 700 peak	cend 57 and eard 57 and 1 100 peak	{ 5772} cegud "BrD" and resid 57 and segid "BrD" and resid 57 and 2 100 1 100 peak	resid 12 resid 12	esid 57	1 700 resid 26 resid 26	1 100 eard 26 eard 26	1 800 resid 26	2 300	2 000 eeld 56	8 segid "BrD" and resid 56 and 2 800 2 000 peak	esid 56	resid 69 resid 69 1 100 pe	resid 69 and resid 69 and 1 100 peak	esid 69 and esid 69 and 1 700 peak	rD " and resid 78 rD " and resid 78 2 000 2 000 pe	eegid "BrD " and resid 78 and

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and name HB)) pcak 7092 weight	1 and name HB)) 8 and name HA)) 0 peak 7102 weight (and name HG1%) and name HA)) peak 7122 weight	1 and name HG2t) 4 and name HB1)) 0 peak 7172 weight (and name HA)) and name HB1)) peak 7192 weight	7 and name HG2%) 02 and name HD2%) 0 peak 7252 weight (and name HG2%) and name HD2%)	and name HG2%) and name HR%)	and name	and name HA)) and name HD1))	and name HA)) and name HB1)) beak 7502 weight	and name and name seak 7522	and name	and name HA)) and name HEt)	and name HB1)) and name HA))	and name HA)) and name HB1)) eak 7722 weight	and name HA)) and name HB))	and name HA)) and name HBV) peak 7762 weight	and name and name cak 7772	07 and name HA)) 10 and name HG12)) 0 peak 7782 weight 0	and name and name eak 7792	and name HA)) and name HD1%) weak 7802 weight	and name HA)) and name HD2)) peak 7872 weight	and name HA)) and name HB2)) aak 7892 weight
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	804 ppm2	953 ppm2	4.954 ppm2	951 ppm2	784 ppm2	000 ppm2	288 ppm2	547 ppm2	700 ppm2	697 ppm2	697 ppm2	658 ppm2	994 ppm2	409 ppm2	409 ppm2	700 ppm2	795 ppm2	798 ppm2	797 ppm2	646 ppm2	646 ppm2	751 ppm2	808 ppm2
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and name HA))	6502 name	6512 name	6522 6522 name		and name eak 6562 and name	and name eak 6572 and name	and name eak 6612 and name	name 6642	пате 6662 пате	name 6672 name	name 6682 name	and name HB1)) peak 6732 weight and name HB*)	and name eak 6872 and name	name 6882 name	name 6892 name	and name eak 6912 and name	and name cak 6942 and name	name 6962 name	and name HUZV) peak 6972 weight and name HGZV)	name 6992 name	7002 name	name 7022 name	and name HBY) and name HA))
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0.11000E+01 volume	0E+01 volume	0E+01 volume	0E+01 volume	0E+01 volume)E+01 volume	E+01 volume	E+01 volume	E+01 volume	E+01 volume	E+01 volume	E+01 volume		E+01 volume	E+01 volume	E+01 volume	emilon 1010		E+01 volume	E+01 volume	E+01 volume	8+01 volume				volume
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name 8462	and name HB and name HA peak 8552 we:	and name HB and name HD peak 8562 we:	and name HA and name HB peak 8602 we:	and name HDI and name HA peak 8652 wei	and name HDS and name HDS peak 8672 wes	and name HD2*) and name HD1*) peak 8682 weight	and name HA and name HB! peak 8722 wei	and name HD1%) and name HB1) peak 8742 weigh	and name HA and name HEV peak 8752 wei	and name HB1 and name HEt peak 8782 wer	and name HB2 and name HB4 peak 8792 wea	name	8802 name	name 8812	and name HD1%) and name HG1%) peak 8822 weigh	and hame HD14) and name HB4)	name	8872	name 8892	and name HD2t) and name HEt) eak 8912 weight	name name 8922	Jame 1ame	ame ame	ak 8952 and name and name	3972 18me 1982
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	Ş		51E+03 ppm1	B+02 ppm1	E+03 ppm1	E+03 ppm1	E+02 ppm1	8+03 ppml	E+03 ppm1	E+03 ppm1	B+03 ppm1	K+03 ppml	E+03 ppm1	Reformant	1	8+03 ppm1	5+03 ppm1	3+03 ppm1		5+03 ppm1	3+03 ppm1	3+03 ppm1	3+03 ppm1	:+03 ppm1	+03 ppm1
	•	0 234	0 124	e 0 81954B	e 0 10885E+03	e 0 10120E+	a 0 94016B	0	0	0 161578+03	0 206338	0 381538	0 45741E	921568	•	0 23309B	0 317116	0 46026E		0 20320E+03	0.399108	0 10291E	0 13686E	0 1293584	0 15454E+03
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name HB1))	/922 Weight name HB2)) name HA))	7932 weight name HA)) name HB2))	7962 weight name HA)) name HB1))	7972 weight name HA)) name HG1 })	8032 weight name HB2 })		weight HB1))	8102 weight name HB2)) name HA))	8112 weight name HD1%) name HB2)}	B142 weight name HD14) name HD15)	weight HDIV)	HB1)) weight		name HB2)) name HG)) 8182 Weight (HB1))	weight HD21)	HD2%) weight	name HD2%) name HD1%) 8232 weight (name HA)) name HB2 })	D2 weight of	92 weight of	ne HB1 /))2 weight o ne HD1%)	ne HB2)) t2 weight 0	nc HD1%) RZ weight 0	HB2)) weight HD2%)
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cuid 103 and name HB2)) 2 100 peak 9802 weight 0	and name HA)) and name HB1)) sak 9812 weight and name HA))	csid 106 and hame HB1)) 2 000 peak 9822 weight esid 103 and name HA)	2.000 peak 9832 weight 0	2.200 peak 9862 Weight 0	esid 19 and name HA)) 2 000 peak 9872 weight	esid 36 and name HB1)) esid 36 and name HA)) 1.800 peak 9912 weight	zD " and resid 36 and name HB2)) zD " and resid 36 and name HA)) z 000	eald 36 and name HB1)} eald 37 and name HB1)) 0.000 peak 9932 weight	eald 36 and name HB2)) eald 37 and name HD1))	esid 36 and name HG1))	1.700 peak 9952 weight 0	esid 54 and name HA }) 2 100 peak 9962 weight esid 54 and name HB2 })	2 100 peak 9982 weight 0	cestd 54 and name HG1)) 2 100 peak 10042 weight	esid 35 and name HA }) esid 35 and name HB2 }) 2 200 peak 10062 weight 0	esid 35 and name HA)) esid 35 and name HB1))	eald 70 and name HB1)) eald 69 and name HG2)	peak fulls weight and name HB2)) and name HG2%) beak 10122 weight	esid 70 and name HBZ)) csid 69 and name HGl*)	2 SUD Peak 10134 Weight U eeld 7 and name HB1)) eeld 7 and name HA))	2.000 peak 10232 weight 0 end 7 and name HB2))	2 100 peak 10242 weight esid 42 and name HA))	resid 42 and name HB1)) 1.400 peak 10252 weight	cend 42 and name HBJ)) cend 42 and name HA)) l 300 peak 10292 weight	megid "BrD" and reald 87 and name HA)) segid "BrD" and reald 87 and name HB2)) 2 400 1 400 1 400 peak 10312 weight 0 11
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(G1)) reight	(A)) (G24) (e1ght	() () () () () () () () () () () () () (HB1)) Weight 0 HA))	(82)) velght 0	eight	name HA)) name HB1)) .0932 weight	HA)) HB2)) weight	HA)) HD1)) Weight 0	and name HG2)) and name HD1)) peak 11002 weight 0 1	and name HD1)) and name HA)) peak 11032 weight 0 1		weight 0 HD1)) HB2))	weight 0	weight	(A))	and name HD2)) and name HG2%) peak 11182 weight 0.1	and name HG1)) and name HD1)) peak 11212 weight 0 1	HG2)) HD1))	(62)) (102))	HG1))	101)) 1024)	HB1)) HD2%) Weight	HB1)) HD1%) Weight 0	HB2)) HD1%) Weight 0
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and name HA 1)	and name HB1)) and name HA)) and 10332 weight	and name HB2)) and name HA)) peak 10342 weight	and name HB2)) and name HG1)) peak 10352 weight	and name HG2)) and name HD1%) peak 10392 weight	and name HA)) and name HB1))	and name HA))	peak 10422 Weight and name HB2)) and name HA))	peak 10452 weight and name HB1)) and name HA))			and name HA)) peak 10492 weight	and name HA // and name HB1 // peak 10532 weight		and name HG1)) and name HE%) peak 10552 weight	and name HG2)}	peak 10562 weight and name HA))	peak 10632 weight and name HG2))	and name HA }) peak 10642 weight and name HA })	and name HB1)) peak 10652 weight and name HA))	and name peak 10662 and name	and name HA)) peak 10672 weight and name HB1))	and name HA)) peak 10682 weight and name HB2))	peak 10692 weight and name HB1))	and name HA }} peak 10702 weight and name HA }}
I (10322) (segid "BrD " and resid 87 2 segid "BrD " and resid 87	{1032} {1032} eegid "brD" and resid 67 eegid "brD" and resid 84 2 600 1.700 1.700	resid 87 resid 84 1 100	segid "BrD " and resid 87 segid "BrD " and resid 87 segid "BrD " and resid 87 5.300 1 300 1.300	1923) ht "BrD " and resid 87 htd "BrD " and resid 50 100 3 100 2 000	2 2	(segid "BrD " and reald 94 (segid "BrD " and reald 94	1 300 eard 92	2 300 1 300 1 300 [10462] [segid "BrD " and resid 92 [segid "BrD " and resid 92	2 000 1 000 1 000 {10482} segid "BrD " and resid 117 segid "BrD " and resid 100	2 400 1 400 1 400 {10492} eegad "BrD" and resid 113	2.400 1 400 1.400 1.400 1.500	segid "BrD " and resid 75 2 500 1.600 1 600 [100 1 600]	segid "BrD " and resid 75 segid "BrD " and resid 75 2 400 1 400 1 400 {10552}	esid 75 esid 75 1 700	27 bise 81d 75	1.700 eard 66	1 700 said 66	(segid "BiD " and resid 66 2 500 1 600 1 600 [(10652) (segid "BrD " and resid 66	1 300 estd 66	1 100 esid 80	1 700 2 700 celd 80	1.700 1.700	3 000 2 200 2 200 (10702) segad "BrD" and resid 80	zend 80 2.100 resid 80
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and resid 33	{12042} segid "BrD " and resid 33 segid "BrD " and resid 33 2 900 2 100 r	resid 33 resid 33 2 200	orD " and resid 33 inD " and resid 33 2 400 2 400	esid 33 esid 33 2 100	esid 33 esid 33 2 100	1d 33 1d 33 2 100	1d 33 1d 33 2 400	resid 35 resid 36 1 400	segid "BrD " and resid 59 segid "BrD " and resid 59 2 300 1 300 1 300 p {12242}	esid 59 esid 59 1 800	esid 59 esid 59 2 200	esid 59	2.400 eaid 59	2 100 esid 61	1 600	191d 61 181d 58 2 200	81d 61	19 pts:	1 100 81d 10	and re	p p c	nd resid 10: nd resid 31	nd resid 14	1 400 dd 14	D " and resid 14 1 300 1 300	D " and resid 14 D " and resid 14 1 300 1 300
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	4 805 ppm2	2 685 ppm2	2 420 ppm2	2 340 ppm2	2 340 ppm2	2 636 ppm2	2 190 ppm2			3 177 ppm2	2 629 ppm2	3 177 ppm2	2 779 ppm2	5 347 ppm2		5.347 ppm2	4 559 ppm2	4 410 ppm2	2 730 ppm2		Z 978 ppm2	2 725 ppm2	4 361 ppm2	4 361 ppm2		4 360 ppm2
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	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	volume	volume	volume	votume	0 11000E+01 volume (0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 6		0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0			0 11000E+01 volume 0	11000E+01 volume 0	0 11000E+01 volume 0		11000E+01 volume 0
and name (A))	peak 11392 and name	and name HA)) peak 11422 weight and name HD1))	peak 11442 and hame	peak 11472 and name and name	peak 11482 and name and name	peak 11612 weight and name HG1)) and name HA))	weight HA)) HB2))	Weight HD1))	Weight HD1)) HG1))	weight HD2 }) HG2 })	weight HDI))	weight HGI))	name HD2))	and name HB1)) peak 11802 weight 0	and name HA))	peak 11812 weight of and name RD1))	peak 11852 weight of and name HD2))	Weight	and name HD1)) peak 11912 weight 0	and name HB1)) and name HD1))	HB2))	peak 11942 weight 0	and name HG2 }) peak 11952 weight 0	and name HA)) and name HB2)} peak 11962 weight 0	and name HA }}	eak 11972 weight o
and resid 97	400 1 400 and reald 97	1 200 1 200 resid 97	and resid 86	1 400 esid 86 esid 86	2.100 and resid 64 and resid 61	1 300 said 64 said 61	1 700 resid 6 resid 6	1 400 resid 72 resid 72	-esid 62	1 800 esid 62 esid 62	2 300 eald 62	2 400	2.200	esid 91 1 800	esid 91	1 800 Bard 91	800 1 800 and resid 91	and resid 89 000 2 000	restd 91	D * and resid 91 D * and resid 91	resid 91	2 000	2 200	celd 33	ceald 33	1.800 p
ASSI (11392) ((segid "BrD (segid "BrD	ASSI (11422) ((segad "B)	((segid "BrD " , 2 200 1 2 ASSI (11442) ((segid "BrD " ,	ASSI (11472) ((segid "BrD ((segid "BrD	2 400 1 46 ASSI {11482} ((segid "BrD " a () segid "BrD " a	2 900 ASSI {11612} ((segld "B1 ((segld "B1	2 300 1 ASSI (11622) ((segid "BrD ((segid "BrD	2 600 1 700 ASSI (11692) ((segid "BrD " and ((segid "BrD " and	ASSI {11702} ((segid "BrD " and a ((segid "BrD " and a	ASSI {11712} ((segid "Br () segid "Br	2 700 ASSI {11732} ({ segid "Br ((segid "Br	3 200 2 600 ASSI (11742) ((segid "BrD " and r	3 100 ASSI (11782) ((segid "Br	((segid "Br 3 000 ASSI (11802)	((segid "BrD " and r. 2.700 1 800	ASSI (11812) ((segid "8rD " and re ((segid "8rD " and re	3 700 3 ASSI [11852] ((segid "BrD		(segid "Bri 2 800 ASSI {11912} (segid "Hy	((segid "BrD 3 700 3 ASSI (11922)	segid "Bri	ASSI {11942} ((segid "Bri	2 800 {1195 Regid	((segid "Br 3 000 ASSI (11962)	((segid "Bri ((segid "Bri 2 700	ASSI (11972) ((segid "Bri ((segid "Bri	2 700 1 ASSI (12032) ((Begid "BrD

2 322	2 128	1 084	4 720	4 441	0 409	4 625	000 S	2 644	1 662	4 913	1.271	2 989	4 624	3 182	25		-	2 634	2 905	1 544	4 810	808	2 469 4.208
108 ppm2	58 ppm2	441 ppm2	95 ppm2	842 ppm2	.487 ppm2	805 ppm2	05 ppm2	651 ppm2	826 ppm2	48 ppm2	848 ppm2	360 ppm2	974 ppm2	649 ppm2	952 00002			13 ppm2	Zwdd L	6 ppm2	6 ppm2	7 ppm2	4 804 ppm2 2.781 ppm2
4	1 1.058	8	1.795	1	64	4	4.805	н	64	1.848	Ħ	4	74	4	4			4 903	2 437	4.756	1 596	1 797	4 804
0 75137E+02 ppm1	0 50793E+03 ppml	0 18693E+02 ppml	0 28896E+03 ppml	0 26245E+03 ppml	0 29780E+02 ppml	0 19090E+03 ppm1	0 14250E+03 ppml	0 17578E+03 ppml	0 34592E+02 ppm1	0 83827E+02 ppml	0 55813E+02 ppm1	0 69544E+02 ppml	0 566698+02 ppm1	0 19084E+03 ppml	0 29321E+02 ppm1	601363636		0 25810E+03 ppml	0 595648+03 ppml	30896E+02 ppml	174968+03 ppm1	55145B+02	0 65568K+02 ppml
0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume) 11000E+01 volume	0 11000E+01 volume	0 11000£+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	east (Co		volume	11000E+01 volume (11000E+01 volume 0	11000E+01 volume 0		volume
and name HG)) peak 13262 weight	and name HB1)) peak 13362 Weight and name HB1))	and name peak 13372 and name	and name HA))	and name HBZ)) and name HA)) ak 13402 weight	and name HB)) and name HD2%) peak 13422 weight	7 and name HA)} 0 and name HB2 }} 0 peak 13432 weight	7 and name HA)) 0 and name HB1)) 0 peak 13442 weight (8 and name HG2*) 2 and name HD2 }) 0 peak 13482 weight (and name HB1)} and name HG2%) peak 13492 weight	and name HE* } and name HA }) peak 13512 weight	and name HE*) and name HD2*) peak 13522 weight	and name HA)) and name HB2)) peak 13542 weight	and name HB2)) and name HA)) peak 13552 weight	and name HG2%) and name HD1 }} peak 13652 weight	and name HA)) and name HB*) peak 13662 weight	and name HB1)) and name HB%) beak 13702 weight	and name HA)) and name HD2))	peak 13724 Weight and name HG }) and name HB1 })	peak 13742 weight o and name HBI)) and name HGI*)	peak 13902 and name and name	eak 13912 weight and name HG12)) and name HA))	and name HA)) and name HG11))	end name HB1)) and name HD1)) peak 14002 weight
	segid "BrD" and resid 18 2.300 1 300 1 300 {13372} segid "BrD" and resid 14	Begid "BrD " and resid 18 4 000 4 000 1.500 {13382} Begid "BrD " and resid 25	2.600 1.700 1.700 [3402]	ÜÜ	segid "BrD " and resid 21 segid "BrD " and resid 18 3 700 3 400 1 800 [13432]	segid "BrD " and resid 57 segid "BrD " and resid 60 2 700 1.800 1 800	segid "BrD " and resid 57 segid "BrD " and resid 60 2 900 2.100 2.100	uegid "BrD " and resid 58 (segid "BrD " and resid 62 2 800 2 000 2 000 [(13492)	megid "BrD " and resid 61 segid "BrD " and resid 58 3 600 3 200 1 900 [13512]	5 5	8egid "BrD" and read 59 8egid "BrD" and read 56 3 400 2 900 2 100 [13543]	megic -brD " and resid 21 megic "BrD " and resid 24 3 200	<pre>segid "BrD " and resid 74 segid "BrD " and resid 71 3 300 2 700 2 200 {13652}</pre>	segid "BrD" and resid 58 segid "BrD" and resid 62 2 800	(13662) segid "BrD " and resid 32 segid "BrD " and resid 31 3 700 3 400 1 800	{13702} segid "BrD " and resid 42 segid "BrD " and resid 43 3 800 3 600 1 700	(13722) segid "BrD " and resid 59 segid "BrD " and resid 62	rD and	1 300 3rD and 3rD and	, 23	2 000 ; hrD " and resi	2 100 resid 98 resid 10	xD " and resid 53 irD " and resid 53 2 000 2 000
(Begid "I 3.200 ASSI {13362}	(segid 2.300 ASSI (13372 (segid	(segi 4 00 ASSI (133	((segid 2.600 ASSI (1340)	((8691 ((8691 2.60 ASSI (134	({ segid (segid 3 700 8831 (13432		(aegr (aegr (aegr (aegr (aegr (aegr (aegr	(segr. (segr. 2 80	((segid") (segid") 3 600 ASSI (13512)	(segid "E ((segid "E 3 100 ASSI (13522)		((segid ") ((segid ") 3 200 ASSI (1352)	((segid "E ((segid "E 3 300 ASSI (13652)	(segre		ASSI {13702} ((segid "! (segid "! 3 800	ASSI (13722) ((segid "B ((segid "B	ASSI (13742) ((segid "B	2 300 ASSI (13902) ((eegid "i (eegid "i	3 700 ASSI (13912) (segid ") ((segid ")	2 800 ASSI {13932} ((segid "E ((segid "E	3 400 ASSI (13942) ((segld "E	ASSI [1402] ((segid ": ((segid ": 2 800
4. N	1 084	2 707	012 1		1 964	3 307	3 605	4 517	1 715	3 406	200 60		1 321	1 083	4 445	3 143	3 278	3 532	4 462	5 543	1 823	3.149	2 323
1 401 ppm2	1 402 ppm2	1 847 ppm2	1 848 DDM2		2.535 ppm2	2.535 ppm2	1 004 ppm2	1 054 ppm2		4 412 ppm2	cand pre		zwdd ach t	1 745 ppm2	4 013 ppm2	1 546 ppm2	3 718 ppm2	5 003 ppm2	2 340 ppm2	2 535 ppm2	4.704 ppm2	0 756 ppm2	3 127 ppm2
23971E+03 ppm1		0 21211E+03 ppml	88634E+02 ppm1		212138+03 ppml	35414E+03 ppm1	14057E+03 ppm1	66311E+02 ppm1		0 509/6E+02 ppm1			Tudd potacocat	0 90746E+02 ppml	0 76248E+02 ppml	0 13096E+03 ppm1	59764E+02 ppm1	52965E+02 ppm1	0 32755E+02 ppm1	46303£+03 ppm1	0.37838E+02 ppm1	0 16892E+03 ppm1	7944E+02 ppml
0 11000E+01 volume 0	volume 0		volume		Notume D	volume 0	volume 0	volume 0		volume o				volume 0	volume 0	lume 0	volume 0	volume o	volume 0 3	volume 0 4	volume 0.3	volume 0 1	olume 0.8
	0 11000E+01 v	0 11000E+01				9						100001) 11000E+01 vo		11000E+01 vo		11000E+01	11000E+01				11000E+01 vc
and name HD1%) and name HA }) peak 12462 weight	and name HD1%) and name HD1%) seak 12472 weight 0 11000E+01	and name HE*) and name HB!)) peak 12602 weight 0 11000E+01 volume	and name HE*) and name HG1)) peak 12622 weight 0 11000E+01	and name HE* }	pear icees weight o iloous+Ul and name HE*)	peak 12682 weight 0.11000E+01 and name HG2%) and name HB1)}	velght 0 110005+01 (B2))	peak 12802 weight 0 110005+01 and name HG1%) and name HB%)	peak 12902 weight 0 11000E+01 and name HA)) and name HB2))	Metgic 0 11000E+01 HB1))	HB)) HA)) Weight 0 11000E+01	HA)) HD1%)	and name HG2*)	eak 12952 weight 0 11000E+01 and name HB1)) and name HA))	and name HD1)	and name HA))	HB2)) weight 0 11000E+01 HA))	HB1)) Weight 0 11000E+01	HA)) weight 0 11000E+01	48) 4A }) weight 0 11000E+01	HB }) Weight 0.11000E+01	Meight 0 11000E+01 HB2))	name 3252 name
and reoid 14 and name HD1%) and resid 14 and name HA)) 700 1700 peak 12462 weight	resid 14 and name HD1t) resid 18 and name HD1t) 1 600 peak 12472 weight 0 11000E+01	esid 59 and name HE%) esid 59 and name HBI)) 1 800 peak 12602 weight	eeld 59 and name HEt) eald 59 and name HG1)) 2 400 peak 12622 weight 0 11000E+01	celd 54 and name HEt }	reard 54 and name HE¢) esid 54 and name HG¢)	1 600 peak 12682 weight 0.11000E+01 1616 50 and name HG2t) 1616 84 and name HB1))	2 100 peak 12772 weight 0 11000E+01 814 78 and name HB2)) 814 75 and name HA))	2 200 peak 12802 weight 0 11000B+01 said 38 and name HG14)	2 000 peak 12902 weight 0 11000E+01 cesid 25 and name HA))	2 100 peak 12522 weight 0 11000E+01 2 and name HBA)) 2 100 peak 12522 weight 0 11000E+01	914 25 and name HB)) said 25 and name HA)) 1.700 peak 12932 weight 0 110008+01	said 99 and name HA)) said 102 and name HD1%) 2 000 neak 1942 weight o linnbin	and name HG2*)	eak 12952 weight 0 11000E+01 and name HB1)) and name HA))	and name HD1)	2 100 peak 13062 weight esid 81 and name HA))	2 200 peak 13152 weight 0 11000E+01 9 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	### ### ### ### ### ### ### ### ### ##	1800 peak 13172 weight 0 11000E+01	cesd 54 and name NS) 1300 peak 13182 weight 0 11000E+01	**************************************	cepid 34 and name HB2)) 2 000 peak 13222 Weight 0 11000E+01	cestd 56 and name HG)) 2 400 peak 13252 weight cestd 34 and name HBI))
(12462) negid "BKD	(12472) egid "BrD" and reald 14 and name HDI\$) segid "BrD" and reald 18 and name HDI\$) 2 500 1,600 1 600 peak 12472 weight 0 ll000E+01	esid 59 and name HE%) esid 59 and name HBI)) 1 800 peak 12602 weight	1.40.21 9cgld "BED" and reold 59 and name HEt) 9cgld "BED" and reold 59 and name HGl)) 3.100 2.400 2.400 peak 12652 weight 0.11000E+01	{12662} Begid "BrD " and resid 54 and name HBt } Begid "BrD " and resid 54 and name HB2 })	for and resid 54 and name HEt) "BED" and resid 54 and name HEt) "BED" and resid 54 and name HGt)	2 500 1 600 1 600 peak 12682 weight 0.110005.01 17772} and reald 50 and name HO2% egid "BED" and reald 80 and name HB1)	1 900 2 100 2 100 peak 12772 weight 0 11000E+01 [12802] 2 100 2 100 peak 12772 weight 0 11000E+01 begid "BrD" and resid 78 and name HB2)) segid "BrD" and resid 75 and name HA))	2 200 peak 12802 weight 0 11000B+01 said 38 and name HG14)	2 000 peak 12902 weight 0 11000E+01 esid 25 and name HA))	[12922] 12922] 12924 SEC	(12932) segid "BrD" and repid 25 and name HB)) aegid "BrD" and repid 25 and name HA)) 2 600 1 700 peak 12932 waight 0 11000E-01	said 99 and name HA)) said 102 and name HD1%) 2 000 neak 1942 weight o linnbin	and name HG2*)	2 400 peak 12952 weight 0 11000E+01 eaid 98 and name HB1))	3 200 2 600 2 300 peak 12982 weight 0 11000E-01 (13062) segid "BID" and read 56 and name HDIM)	2 900 2 100 peak 13062 weight (13152) segid "BFD" and resid 81 and name HA))	degid "BrD" and resid 84 and name HB2)) 3 300 2 700 2 200 peak 13152 weight 0 11000E+01 [13.162] segid "BrD" and resid 85 and name HA })	Gegid "BrD " and resid 88 and name HBI }) 3 400 2 900 2 100 peak 13162 weight 0 110005+01 [13172] and vasid 86 and name HBI i)	eegad "Bro" and reald 83 and name HA)) 3 700 3 400 1 800 peak 13172 weight 0 11000E+01	megid 'BIC and resid 54 and make NE') segid "BIC" and resid 54 and name NE,) 2 300 1 300 1 300 peak 13182 weight 0 11000E+01 [13212] segid ARC " and resid 67 and name N)	Decided By and vest 4: And mame No. 7) 3 600 3 200 1 900 peak 13722 weight 0.11000E+01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and name HB2)) peak 1322 weight 0 11000E+01 and name HB2))	eegid 'BrO' and resid 56 and hame HG) 3 100 2 400 2 400 pmak 13252 weight (13562) eegid 'BrO' and resid 34 and name HBI)

7 271	7 952	866 9	7 533	7 535			7 069	7 063	7 259	0 408	7 901	7 607	4 9 4		7	4 932	7.788	7 787	1 554			7 705	543	3 3 6 6	4 354	-0 162
3 816 ppm2	3 962 ppm2	3 576 ppm2	2 985 ppm2	3 571 ppm2	É	zwdd sie s	3 672 ppm2	4 755 ppm2	4 755 ppm2	4 607 ppm2	4 410 ppm2	4 410 ppm2	5.592 mag		emdd 199	3 668 ppm2	3 720 ppm2	4 903 ppm2	4 804 ppm2	4.804 mm2		3 125 ppm2	0 760 ppm2	0 755 ppm2	0 859 ppm2	2 190 ppm2
0 11000E+01 volume 0 74345E+02 ppml	0.11000E+01 volume 0 27498E+03 ppml	0.11000E+01 volume 0 14689E+03 ppml	0 11000E+01 volume 0 37941E+02 ppm1	0 11000E+01 volume 0 16094E+03 ppm1		+GCCOTT O DIMITON	0.110008+01 volume 0 15106E+03 ppm1	0 11000E+01 volume 0 68425E+02 ppml	0 11000E+01 volume 0 82972E+03 ppml	0 110606+01 volume 0 83712E+01 ppm1	0.11000E+01 Volume 0 21131E+03 ppm1	0 11000E+01 volume 0 16900E+03 ppm1	0 11000E+01 volume 0 97221E+00 ppm1	CO. 100 C.		0 11000E+01 volume 0.43854E+03 ppm1	0 11000E+01 volume 0 67242E+03 ppm1	0 11000E+01 volume 0 69463E+03 ppm1	0.11000E+01 volume 0 16843E+03 ppm1	0 11000E+01 volume 0 94615E+02 pom1		0 11000E+01 volume 0 12277E+03 ppm1	0 11000E+01 volume 0.31158E+03 ppm1	0 11000E+01 volume 0.23078E+03 ppm1	0 11000E+01 volume 0 93743E+02 ppm1	0 11000E+01 volume 0 10412E+03 ppm1
segid "BrD" and resid 47 and name 3 200 2 600 2 300 peak 15332 (15352) 600 2 300 peak 15332 and name	segid "BrD " and reald 32 and name 2 600 1 700 1 700 peak 15352 {15432}	(regid "BrD" and reesal 74 and name HD1)) (seegad "BrD" and reesal 74 and name HD1) (seegad "BrD" and reesal 74 and name HD1) ASSI 13-802 2 100 2.100 peak 15412 weight ASSI 13-842)	((segraf "B-P" and read 74 and hamm HR2)) (segraf "B-P" and read 74 and hamm HR4) (segraf "B-P" and read 14 and hamm HR4)	(1 egard BET) and resid 74 and name HB1)) (1 egard BET) and resid 74 and name HB1) 2 800 2 000 2 000 peak 15422 wasgin	rD " and resid 82 and name rD" and resid 82 and name 2 200 resid 82 and name	d resid 82 and name	2 800 2 000 2 000 peak 15612 [15732] segid "BrD " and resid 82 and name	Asegud "BrD" and resid 82 and name 3 200 2 500 2 300 peak 15732 {15742} segid "BrD" and resid 82 and name	segid "BrD " and resid 82 2 100 1 100 1.100 {15792} segid "BrD " and resid 15	Begid "BrD " and resid 18 and name 4.600 4.600 0.900 peak 15792 {16522}	segid 'BrD ' and resid 107 and name HE'') 2.700 1 800 1 800 peak 16522 weight {16532}	((deg1d "BFD" and reald 96 and name HR)) (deeg1d "BFD" and reald 96 and name HFR) (2.800, 2.000 2.000 paak 16523 weight	[16692] segid "BID" and resid 52 and name HA)) segid "BID" and resid 53 and name HG2)) 5 500 5 500 000 peak 16692 weachir	{16822} segid "BrD" and resid 105 and name HR1 }) segid "BrD" and resid 105 and anne HA }) \$ 600 1 200 1 200 1 200 1 200 1 200 1	celd 105 and name HB2))	ASST (17202) ((00914 "BrD" and resad 105 and name HB2))	8egid "BID" and reski 105 and hame 2.200 1.200 1.200 peak 17202 [17242] and resid 105 and hame	2 200 1.200 [17292]	segid "BrD " and resid 116 and name HA)) segid "BrD " and resid 116 and name HG12)) 2.800 2 000 2 000 peak 17292 weight		d resid 34 and name	2 100 peak 17412 esid 81 and name	segid "BYD" and yeard 31 and name 2 500 1 600 1 600 peak 17652 {17662} segid "BYD" and yeard 81 and name	resid 55 and name 1 700 peak 17662	resid 33 and name 2 400 peak 17722	((oegid "BFD" and resid 33 and name HD2)) (oegid "BFD" and resid 33 and name HB2)) 3 000 2 200 2 200 peak 17812 weight
4 010	,	3.606	3 697	4 683	2 434	1.750	4 460	4 942	4 984	1 633		4 425	2 274	2 587	1 710	2 340	7.421		6 689	6 689	5.575	5.575	7.315	5 762		7 271
2 781 ppm2		4 409 ppmz	4 409 ppm2	2 680 ppm2	4 830 ppm2	4 901 ppm2	2 580 ppm2	2 145 ppm2	1 303 ppm2	1 305 ppm2		1 303 ppm2	0 911 ppm2	5 447 ppm2	2 586 ppm2	4 904 ppm2	4 163 ppm2		4 164 ppm2	3 078 ppm2	3 372 ppm2	3.570 ppm2	2 639 ppm2	4.705 ppm2		3 375 ppm2
0 11000E+01 volume 0 10929E+03 ppml	co-decent of some for		0 11000E+01 volume 0 67314E+02 ppml	0 11000E+01 volume 0.38186E+03 ppm1	0.11000E+01 volume 0 68636E+02 ppml	0 11000E+01 volume 0 37471E+02 ppm1) 11000E+01 volume 0 21551E+03 ppml	0 11000E+01 volume 0.58722E+02 ppm1	0 11000E+01 volume 0 51766E+02 ppm1	11000E+01 volume 0.50747E+03 ppm1		0 11000E+01 volume 0 22785E+03 ppm1	11000E+01 volume 0 98423E+02 ppml	11000E+01 volume 0.48374E+00 ppml	0.11000E+01 volume 0 74053E+02 ppm1	0 11000E+01 volume 0 27804E+02 ppm1	0.11000E+01 volume 0 19889E+03 ppm1		11000E+01 volume 0.36218E+02 ppml	110005+01 volume 0 28675E+02 ppm1	0 11000E+01 volume 0 98530E+02 ppml	0 11000E+01 volume 0 74212E+02 ppm1	11000E+01 volume 0 17734E+02 ppm1	11000E+01 volume 0 16402E+02 nom1		110008+01 volume 0 56146E+02 ppml
(14012) oegid "BrD" and resid 53 and hame HB1)) each "BrD" and resid 53 and name HB2)) 5.000 2 200 2 300 peak 14012 waight	(14072) segad "BrD" and reald 79 and name HA)) segad "BrD" and reald 82 and name HB2)) 3 000 2 200 2 200 reak 14072 wearth	celd 79 and name HA))	3.300 2 700 2 200 peak 14083 weight (14092) and resid 79 and name HB2)) seq1d "BrD" and resid 76 and name HB2))	2 400 1 400 1 400 peak 14092 weight [14182] see34 "BrD" and resid 94 and name HA))	egid "BrD" and resid 97 and name HDI)) -200	<pre>6eg1d "BxD " and resid 17 and name HG2#) 3.600</pre>	((segid "BrD " and resid 11 and name HB2)) ((segid "BrD " and resid 11 and name HD1)) 2 700 1.800 1.800 peak 14552 weight 0 ASSI (14572)	esid 14 and name HB2)) esid 11 and name HA)) 2 200 peak 14572 weight	121021, segad "BrD" and resid 102 and name HD21, segad "BrD" and resid 31 and name HA)) 3 400 2 900 2.100 peak 14592 weight	ABS1 [14012] (seg1d "BFD" and resid 102 and name HD24) (seg1d "BFD" and resid 25 and name HG24) 2.300 1300 1300 peak 14612 weight 0	esid 102 and name HD24)	weight HB2))	3 100 2 400 2 400 peak 14662 {14772} and resid 36 and name	segid "BrD " and resid 37 and hame 14 550 550 000 peak 14772 14812} segid "BrD " and resid 42 and hame	segid "BrD " and resid 43 and name HBV) 3.200 2.600 2.300 peak 14812 weight [14822]	segid 'BrD ' and resid 36 and name Hb !) segid 'BrD ' and resid 36 and name (HB2 !) 3 800	oegid "BrD" and resid 46 and name HA)) segid "BrD" and resid 88 and name HEt) 2 700 1 800 peak 14942 weight	HA)	3 600 3.200 1.900 peak 14962 [14992] 9 9214 "BLD" and read 46 and name mond by and a sea of a	3 JO	Regid "BrD " and resid 28 and name HDZ)) 3 100	((Begid "BID" and resid to and name Hbl)) ((segid "BID" and resid 26 and name Hb2)) 3 200 2 600 2 100 peak 15072 weight 0			d resid 47 and name	3.400 2 900 2 100 peak 15322 weight o ASSI [15332] ((segid "BrD " and resid 47 and name HBl))

866 9		917	6 89	5 753	2 157	1 718	3 882	4 210	7 260	4 696	0 993	6 689	7 267	7 267	7 958	7 958	5 587	4 452	4 4 4 5 2		4.08	5 544	5 542
4 508 ppm2		4 Canna C93	1 697 ppm2		4 263 ppm2	4.411 ppm2	1 747 ppm2	4 696 ppm2	4 696 ppm2	4 015 ppm2	4 214 ppm2	2 784 ppm2	2 784 ppm2	2 486 ppm2	2 486 ppm2	2 784 ppm2	2 784 ppm2	2 831 ppm2		4 6	4.656 ppm2	4 702 ppm2	1 648 ppm2
0.28302E+03 ppm1	0 13802R+03 nem1	553568+01	52712E+02	28846E+03	0 19930E+03 ppm1	0.38344E+03 ppm1	0 91939E+02 ppm1	0 66608E+02 ppml	0 22677E+02 ppml	0 75265E+02 ppm1	0 50650£+02 ppml	35265E+02 ppm1	0 29199E+03 ppml	27122E+03 ppm1	0.38647E+03 ppm1	18213B+03 ppm1	. 58337E-01 ppm1	31153E+03 ppml	363078+03			51113E+02 ppm1	15234E+03 ppm1
0.11000E+01 volume	0 11000E+01 volume	11000E+01 volume	volume		0 11000E+01 volume	0 110005+01 volume	0 11000E+01 volume (0 11000E+01 volume (0 11000E+01 volume (0 11000E+01 volume (0 11000E+01 volume C	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0) 11000E+01 volume 0	11000E+01 volume 0	volume	e milos	AOT TIME	11000E+01 volume 0	11000E+01 volume 0
and name eak 19032	3 and name HBV) 8 and name HEV) 0 peak 19112 Weight	and name and name	and name and name eak 19142	3 and name HBt) 6 and name HDt) 7 peak 19162 weight	resid 102 and name HA)) resid 102 and name HG)) 1 800 peak 19852 weight	and name and name peak 20082	and name and name peak 20232	and name HDI)) peak 20342 weight	and name HE*) peak 20372 weight	and name HA))	and name HG2t) peak 20432 weight	and name HEt) peak 20462 weight	and name and name peak 20472	and name HG2)) and name HE1) peak 20482 weight	and name HG2)) and name HD4) peak 20492 weight	and name HG1)) and name HD4) peak 20502 weight (and name HG1)) and name HA)) peak 20522 weight (and name HG2)) and name HA)) peak 20602 weight (and name and name peak 20612	and name and name	and name	peak 20772	ă.
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	762 ppmz -0	ppmi 2 190 ppm2	2 785 ppm2	0 62722E+02 ppml 2 190 ppm2	0.611938-03 ppml 2 763 ppm2	0.56139E-03 ppml 2 191 ppm2	VOLume 0 674648+02 ppm. 1 056 ppm. 2	ppm1 3 522 ppm2 1	0 48309E+02 ppm1 3 226 ppm2 1	0 17226E+02 ppml 3 226 ppm2 1	0 54558E+00 ppml .2 784 ppm2 5	2 783 ppm2 6		Volume 0 349758+03 ppm1 2 783 ppm2 7	Volume 0 936218+02 ppm1 2 777 ppm2 7	Volume O 501805+03 ppml 2 781 ppm2 3	11000E+01 volume 0 21224E+03 ppml 2 782 ppm2	Volume 0 49200E+62 ppml 3 227 ppm2	3 524 ppm2	Volume 0 12672E+03 ppm1 2 635 ppm2 4	Volume 0 27479E+02 ppm1 2 634 ppm2	volume 0 21856E+03 ppm1 2.634 ppm2	volume 0 24635E+03 ppml 2 634 ppm2 1
and name HD1)) and mame HB2))	peak 17822 weight 0 11000E+01 volume 0 99908E+02 ppml 2 782 ppm2 -0 and name HD2))	Aid mine Art /) 11000E-01 volume 0 2429Er-02 ppml 2 190 ppm2 and reason (FD))	and hame And // peak 17842 weight 0 11000E+01 volume 0.26770E+02 ppm1 2 785 ppm2 and hame HD2)) and hame HD2))	cak 17562 weight 0 110008+01 Volume 0 627228+02 ppm1 2 190 ppm2 and name HD1))	eak 17872 weight 0 11000E+01 volume 0.61191E-03 ppml 2 763 ppm2 and name HD2))	Eak 1/852 weight U 11000E+01 Volume 0.56139E-03 ppml 2 191 ppm2 and name HBJ)) and fame HBJ) sek 1/392 Amine HBJ) sek 1/392 Amine HBJ)	and name HB1) and name HB1) peak 1795 weight 0 11000E+01 volume 0 67464E+02 ppml 1 056 ppm2 2	G3 1) 8:231 8:232 ppm2 3 522 ppm2 1	02)) D1%) eaght 0 11000E+01 volume 0 48309E+02 ppml 3 226 ppm2 1	HG2)) 4828) 48281 0 11000E+01 volume 0 17226E+02 ppm1 3 226 ppm2 1	HB1)) RA)) RA)) Sassible 0 11000E+01 volume 0 54558E5+00 ppml 2 784 ppm2 5	and hame HB1)) And name HB2)) Peak 18779 and 1879 0 1100054-01 volume 0 272748+03 ppm1 2 783 ppm2 6	(a)	7 1 1 2 783 ppm2 7 7 783 ppm2 7 7 783 ppm2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Measailt 0 11000E+01 volume 0 93621E+02 ppm1 2 777 ppm2 7 7 FER1)	weight 0 11000E+01 volume 0 S0180E+03 ppm.1 2 781 ppm.2 3 1HR 1)	weight 0 11000E+01 volume 0 21224E+03 ppml 2 762 ppm2 (RC2)	weight 0.11000E+01 volume 0 49200E+02 ppml 3 227 ppm2 (fd.1)	na.) Mesight 0 110008+01 volume 0.922868+03 ppml 3 524 ppm2 HRR)	He)) . 11000E+01 volume 0 12G72E+03 ppml 2 635 ppm2 4 HEV.)	ank 18752 weight 0 11000E+01 volume 0 27479E+02 ppml 2 634 ppm2 and name HS1)	and name HG21) meak 18792 weight O 110005+01 volume O 21856E+03 ppml 2.634 ppm2	and name HEB) and name HEB 1, eak 18802 weight o 110005+01 volume 0 24643Ek-03 ppml 2 634 ppm2 1
and name HD1)) and mame HB2))	2 200 peak 17822 weight 0 11000E+01 volume 0 9990E+02 ppm1 2 782 ppm2 -0 1 freed 33 and name HD2).	Aid mine Art /) 11000E-01 volume 0 2429Er-02 ppml 2 190 ppm2 and reason (FD))	### ### #### #### ### ### ### ### ###	cak 17562 weight 0 110008+01 Volume 0 627228+02 ppm1 2 190 ppm2 and name HD1))	0 000 peak 17872 weight 0 110008+01 Volume 0.611938-03 ppml 2 783 ppm2 said 33 and name HD2))	u uou peak f.682 weight 0 11000E+01 Volume 0.56139E-03 ppml 2 191 ppm2 meid 33 and name HB1)) meid 33 and name (HB1)) 19.0 ppm2 19.0 p	ceated 33 and name HBL)	993d 75 and name HO1)) 1500 pank 1806 veight 0 11000E+01 volume 0 20766E+02 ppml 3 522 ppml 1	02)) D1%) eaght 0 11000E+01 volume 0 48309E+02 ppml 3 226 ppm2 1	weald 75 and name HG2)) eatd 110 and name HG2)) 1 400 peak 10029 weight 0 110008+01 volume 0 172265+02 ppm1 3 226 ppm2 1	ooid 53 and name HB1)) 0.000 peak 1816: 0.11000E+01 volume 0.545585+00 ppml 2.784 ppm2 5	HBI)) HIRD) HIRD) 12 T 110008+01 Volume 0 27274E+03 ppm; 2 783 ppm; 6	861d 53 and name (BD1))	1 sou peak islad weight 0.11000R+01 volume 0.349758+03 ppml 2 783 ppm2 7 1 sou peak islad weight 0.11000R+01 volume 0.349758+03 ppml 2 783 ppm2 7 2 xand name Hzb)	2 400 peak 18129 weight 0 11000E+01 volume 0 93621E+02 ppml 2 777 ppm2 7 7 read 35 and name HEW) Feat 35 and name HEW)	1 300 peak 1822 weight 0 11000E+01 volume 0 50180E+03 ppml 2 781 ppm2 3 send 35 and name HEV)	1 800 peak 18292 weight 0 11000E+01 Volume 0 21224E+03 pont 2 782 ppm2 seak 75 and name HG2)	2 100 peak 18452 weight 0.11000E+01 volume 0 49200E+02 ppml 3 227 ppm2 neid 75 and name HO1)	2.400 peak 18462 weight 0 110008:01 volume 0.922868:02 ppml 3 524 ppm2 soid 75 and name HEV)	++++++++++++++++++++++++++++++++++++++	reald 18 and name HD24) 100 peak 18752 weight 0 11000E+01 volume 0 27479E+02 ppml 2 634 ppm2 reald 75 and name HS+)	resid 110 and name KG21) 1 800 peak 18792 weight 0 11000E+01 volume 0 21856E+03 ppml 2.634 ppm2	0 110005+01 volume 0 246352+03 ppm1 2 634 ppm2 1

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2 603	2 778	3 028	3 272	3 606	4.988	4 915	6 689	5 587	5 745	7,259	689 9		4 915	1.570	4 522	356	6		7.604	5 143	4 267	4 972			5 021 5 477
1 155 ppm2	1 155 ppm2	1 155 ppm2	1 155 ppm2	1 155 ppm2	1 155 ppm2	1 155 ppm2	1 797 ppm2	1 006 ppm2	1.007 ppm2	1.007 ppm2	1 007 ppm2	į	1 007 ppm2	1 006 ppm2	0 809 ppm2	1.427 ppm2		;	1 646 ppm2	2 880 ppm2	2.537 ppm2	3 610 ppm2	2 11.4 proper		2 635 ppm2 2 635 ppm2
0.24085E+03 ppm1	0 36901B+03 ppm1	0 32396E+02 ppm1	0 22842E+03 ppm1	0 28478E+03 ppm1	0 19153E+03 ppm1	0 57384E+03 ppm1	0 99146E+02 ppm1	0 46395E+02 ppm1	0 30083E+02 ppm1	0.12530E+02 ppm1	0 31318E+03 ppm1		0 14754E+03 ppml	0.30274B+02 ppml	0.57888E+02 ppm1	0 43395E+02 ppm1	527448+03		0 29406E+03 ppm1	0.11329E+03 ppm1	0 53105E+03 ppm1	0.98321E+03 ppm1	0.83098E4.02		0 28012E+03 ppm1 0 17156E+02 ppm1
. 0.11000E-01 volume 0.24085E+03	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume		0 110008+01 Volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000011		0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume		0 11000E+01 volume 0 11000E+01 volume
and name HB2)} peak 21912 weight	and name HD1V) and name HB1)) peak 21922 weight	and name HD1%) and name HG1)) peak 21932 weight	and name HD1t) and name HB2 }} peak 21942 weight	and name HD1%) and name HB1)) peak 21962 weight	and name HD1%) and name HA)) peak 21992 weight	and name HD1%) and name HA)) peak 22002 weight	and name HB)) and name HE) peak 22052 weight	and name HG2*) and name HA)} peak 22092 weight	and name HG2%) and name HD%) peak 22102 weight	and name HG2V) and name HEV) peak 22152 weight	and name HG2%) and name HE%) peak 22162 weight	and name and name	and name	peak 22192	and name HG12)) and name HA)) peak 22262 weight	and name HG2%) and name HA)) peak 22342 weight	and name and name	and name	peak 42522 Weight and name RG1))	eak 22652 and name	and name	and name HE1 }) and name HA }) peak 22872 weight	and name HD2)) and name HA)) beek 22942 weight	and name HG1))	peak 23162 weight and name HG1)) and name HA)) peak 23172 weight
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	4 476	7 316	6 893	6 893	7 315	3 183	2 325	1 479	3 182	4 474	0 766	5 745	7 259		689 9	3 146	5 367	5 542	4 004	1 645	į	1 571	7 606	7 414	4 143
	2 634 ppm2	3 177 ppm2	3 177 ppm2	2.634 ppm2	2 634 ppm2	2 641 ppm2	1 699 ppm2	2.641 ppm2	1 501 ppm2	2 340 ppm2	4 459 ppm2	1 747 ppm2	1 751 ppm2	;	1 747 ppm2	1 056 ppm2	1 056 ppm2	1 056 ppm2	0 760 ppm2	1 155 ppm2		t tss ppmz	2.634 ppm2	2 634 ppm2	2 634 ppm2
	0 10111E+03 ppm1	0 11575E+02 ppm1	0 305418+02 ppm1	0 54284E+02 ppm1	0.91289E+02 ppm1	0 71708E+02 ppml	0 10075K+03 ppm1	0 20830E+03 ppm1	0 87215E+02 ppml	0 13858E+03 ppm1	0 66244E+01 ppml	0.541698+02 ppm1	0 90841E+01 ppm1		0 97356£+01 ppml	0 56657E+02 ppm1	0 44267E+03 ppm1	0 15411E+03 ppm1	0 24983E+03 ppm1	0 14668E+03 ppml		0 3/404E+03 ppm1	0 48521E+02 ppm1	0 55049E+02 ppm1	0 31537E+02 ppml
	0 110005+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 valume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	volume	0 11000E+01 volume	0 11000B+01 volume	0 11000E+01 volume	0 11000E+01 volume		volume	0.11000E+01 volume	0 11000E+01 volume 0 44267E+03 ppm1	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume		V.110005+01 Volume	11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume 0 31537E+02
and name HD2))	peak 20892 weight and name HD1 }) and name HE% }	peak 20902 weight and name HD1)} and name HD4)	peak 20912 weight and name HD2))	peak 20922 weight and name HD2)) and name HEE)	peak 20932 and name	peak 20952 and name and name	peak 20962 and name and name	peak 20972 weight and name HG2)) and name HD1))	peak 21012 weight and name HGI)) and name HA))	peak 21022 weight and name HA }) and name HG2 })	peak 21162 weight and name HB)}	and name nov / peak 21512 weight and name HB })	and name HEt) peak 21522 weight	and name HB)) and name HS%)	and name HG1%)	peak 21602 weight and name HOI%)	peak 21622 weight and name HG1%)	and name HA)} peak 21632 weight and name 462%)	and name HA)) peak 21762 weight	and name HD1%) and name HG1%) peak 21832 weight	and name HD1%) and name HG2%)	and name HB))	peak 21852 and name	and name HEV) peak 21862 weight	and name HB // peak 21872 weight and name HD1%)
(20892) segid "BrD " and resid 62 segid "BrD " and resid 62	3 000	4 400 4 400 1 100 {20912} segid "BrD " and resid 62 segid "BrD " and resid 67	1 800 esid 62	2 100 said 62	2 400 send 62	2 300 said 62	2 200 said 62	1 800 esid 62	2 400 esid 62	2 100 esid 83	0 700 esid 38	2 100 resid 38	esid 47 1 000	ee1d 38	sad 81	2 200 esid 81	1 400	esid 34 2 000 esid 81	8 segid "BrD " and resid 78 2 600 1 700 pt [21832]	esid 50 2 100	rD " and resid 50	eald 49	2 100 eB1d 49	aegid "BxD" and resid 86 3.400 2 900 2.100 E {21872}	eald 46
ASSI (20892) ((segid " ((segid "	3 000 ASSI {20902} ((segid "	4 400 ASSI {20912} ((segid "	3 700 ASSI (20922) ((segid "B	3.400 ASSI {20932} ((segid "B	3 100 ASSI (20952) ((segid ") ((segid ")	3.200 ASSI (20962) ((segid ")	3 000 ASSI {20972} ((segid "I	2 700 ASSI {21012} ((segld "[3 100 ASSI (21022) ((segid "E ((segid "E	2 900 ASSI {21162} ((segid "I ((segid "I	ASSI {21512} ((segid "E	3 400 3 400 ASSI (21522) ((segid "I	(segid ", 4 500 ASSI (21532)	(segid "E (segid "E 4 500	ASSI {21602} (segid "F (segid "F	3 300 ASSI {21622} (segid "E	2 400 ASSI (21632) (segid "E	((segid "E 2 800 ASSI (21762) (segid "B	((megid "B 2 600 ASSI (21832)	(segid "B (segid "B 2 900	ASSI {21842} (segid "B (segid "B 2 ADD	ASSI {21852} ((segid "B) (segid "B)	3 400 ASSI {21862} ((segid "B	(segid "B 3.400 ASSI (21872) ((segid "P	(segid "BrD 3 700

	1 090	925	3 525	3 525	4 508	4 507	4 893	4 370		3 074	4 753	2 538	0 80 81			2 G	7	, L	0. 44	200		4.947		4.947
	1 498 ppm2		989	290		192	124	469	920	784						5 5	7	104	33	1 68	893	519		598
Column C	19359E+03	208416+01	20066E+02	65557E+02	12763E+03	50116E+03	91712E+02	67606E+02	26410E+03		87929E+02	554372+03	111876+03			11/335+02	60.00	970528+02	20226E+03		62174E+03	45243E+02		23440E+02
	.11000E+01 volume	+01 volume	volume	11000E+01 volume	volume	11000E+01 volume	volume	11000E+01 volume	11000E+01 volume	volume	volume	volume	11000E+01 volume		Too			volume	volume	volume	volume	volume		volume
1, 10, 10, 10, 11, 11, 11, 11, 11, 11,	and name peak 24662	and name and name peak 24672	and name and name peak 24742 and name	and name HE1 }) peak 24752 weight	and name Hol)) and name HA)) peak 24762 weight	and name HD1)) and name HA)) peak 24812 weight	and name HG1)) and name HA)) peak 24872 weight	and name HG1)) and name HA)) ak 24902 weight	and name HG2)) and name HA)) ak 24912 weight	and name HA)) and name HB1)) ak 24932 weight	and name HB1)) and name HA)) eak 25432 weight	and name HG12)) and name HB)) eak 25552 weight	HG24) HA)) weight	and name HDI*)	Weight HG2V) HD2V)	HD14) HD24)	and name HD1*) and name HA))	and name HA)) and name HDt)	and name HB1)) and name HA))	and name HB2)) and name HG2))	HB2)) HG1)) weight	HG2)) HA)) weight	and name	peak 26672 weight 0
### 17 to prof. 2012 2.44 2.45 2.44	BrD " and resid 18 1.800 1.800	resid 63	restd 19 restd 19 1.500	2 200 2 200	resid 19 resid 16 2 100	resid 19 resid 16 1 300	resid 23 resid 20 2 400	BrD " and resid 24 BrD " and resid 21 2 600 2 300	BrD " and resid 24 BrD " and resid 21 1 700 1 700	BrD " and resid 24 BrD " and resid 24 1 200 1 200	esid 82 2 400	2 2				BrD " and resid 110 BrD " and resid 14	BrD " and resid 116 BrD " and resid 116	8.8	3.5	8.8	2.2	arD " and resid 103 arD " and resid 100 3 100 2,000	ceard 10	1 600
### 100 peak 2329 weight 0 11000E-01 volume 0 13154E-03 ppm1 3 768 ppm2 4 4 400 peak 2329 weight 0 11000E-01 volume 0 13154E-03 ppm1 3 768 ppm2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	(segid " 2.700 neer (24672)	* begad } * begad } * 5 500 \$ * 5 500 \$	((segid " ((segid " 4 000 ASSI (24752) ((segid "	((segid ") 300 ASSI (24762)			((segid ")	ASSI (24902) ((segid () segid () 3.200	ASSI {24912} ((segid " ((segid "	ASSI (24932) ((segid ") ((segid ")	ASSI (25432) ((segad ") ((segad ")	ASSI {25552} ((segid "i ((segid "i 2 300	ASSI (25612) (8eg1d "E ((8eg1d "I 3 000	ASSI (26032) (segad "I (segad "I	ASSI {26172} { segid "E (segid "E	ASSI (26182) (aegid "E (aegid "E	ASSI [26302] { segid "E (segid "E	ASSI (26562) ((segid "E (segid "E 3 100	ASSI {26592} ((segid "E ((segid "E 2 700	ASSI {26642} ((segid "5 ((segid "6 2.000	ASSI (26652) ((segid "B ((segid "B	ASSI {26662} ((segid "B ((segid "B 3 500	ASSI (26672) ((segid "B (segid "B	3 900
### 100 peak 2329 weight 0 11000E-01 volume 0 13154E-03 ppm1 3 768 ppm2 4 4 400 peak 2329 weight 0 11000E-01 volume 0 13154E-03 ppm1 3 768 ppm2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4																							-	
The state of and name (D1) State 1 to pack 21325 weight 2 to pack 21325 weight 3 to pack 21325 weight 4 to pack 21325 weight 5 to pack 21325 weight 5 to pack 21325 weight 5 to pack 21325 weight 6 to pack 21325 weight 6 to pack 21325 weight 7 to pack 21325 weight 8 to pack 21325 weight 9 to pack 21325 weight 1 to pac					}	4 947		1 750		4 854	4 947					7 534		2 995		4 378	7 536	6,998	4 378	
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1 832		4 828	5 540	4 636	4. 9.69		4 696	3 304	4 126	5 542	5 114	4 407		4 407	4 680	1 547		3 633	3 636	3 670	3 669		8 S	4.810	7 485		4 959
1.303 ppm2		2.143 ppm2	1 544 ppm2	3 137 ppm2			2 536 ppm2	2 585 ppm2	2 634 ppm2	2 645 ppm2	4 310 ppm2	2 978 ppm2		2 730 ppm2	3 033 ppm2	5 346 ppm2		2 641 ppm2	2 701 ppm2	2 633 ppm2	2 701 ppm2		4 459 ppmz	1 895 ppm2	4 950 ppm2		3.597 ppm.2
0.122748+04 ppml		0 40182E+03 ppm1	0 68400E+02 ppm1	0 37484E+03 ppm1	0 84530E+02 ppm1	0.44730E+03 ppm1	0 12060E+03 ppml	0.16180E+03 ppm1	0 45332E+02 ppm1	0 36619E+02 ppm1	0 69345E+02 ppm1	0 26299E+03 ppml		0 15191E+03 ppm1	0 46894E+03 ppml	0 20014E+02 ppm1		0 20564E+03 ppm1	0 23040E+03 ppm1	0,23393E+03 ppml	0 22124E+03 ppml		112/88+02 ppm1	0 452878+02 ppml	0 39658E+03 ppm1		0.18798E+03 ppm1
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resid 102 and name HB2)) 1.000 peak 28712 weight	and name	peak 2	and name peak 28962	and name HA)) sand name HA)) peak 28982 weight	and name HEt) s and name HA))) peak 29062 weight	and name and name peak 29122	and name HEt) and name HB)) peak 29182 weight	and name HBI)) t and name HGI)) peak 29282 weight	and name HB2)) and name HD2)) peak 29312 weight	and name HG2)) and name HA)) peak 29342 weight	and name HD1)) and name HA)) peak 29362 weight	and name HB1)) and name HD2)) peak 29422 Weight	and name	peak 29432 and name	and name peak 29492	and name HA)) and name HGI*) peak 29612 weight	and name HB2))	and name	peak 29942	and name peak 29952	and name HB1)) and name HD1)) peak 29962 weight	and name HA)) and name HA))	and name	and name peak 30052	and name HA)) and name HE*) peak 30162 weight	and name HE1))	
d "BrD " and resid 10	22	2 400 1 400 1 400 (28962) segid "BrD " and resid 56	1 BrD " and resid 34 0 2 600 2 300 82}	Beggta BrD and resid 56 8eggta BrD and resid 56 2.400 1 400 1 400	segid "BrD" and reald 59 segid "BrD" and reald 56 3.100, 2 400 2 400	[29122] segid "BrD" and resid 59 segid "BrD" and resid 74 2 400 1 400 1 400	segid "BrD " and resid 54 segid "BrD " and resid 58 segad "BrD " and resid 58 500 2 200 2200	Regid "BrD " and resid 54 segid "BrD " and resid 54 segid "BrD " and resid 54 2 800 2 000 2 000 {29312}	Segid "BrD " and resid 44 segid "BrD " and resid 44 segid "BrD " and resid 44 3 500 3 100 2 000 {29942}	segid "BrD " and resid 44 segid "BrD " and resid 43 3 600 3 200 1 900 {29362}	segid "BrD " and resid 44 segid "BrD " and resid 44 3 200 2 600 2 300	egid "BrD " and resid 91 segid "BrD " and resid 91 2 600 1 700 1 700	{29432} segid "BrD " and resid 91 segid "BrD " and resid 91	2 000 2 000 2} "BrD " and resid 79	segid "BrD " and resid 76 2 400 1 400 1 400 {29612}	segid "BrD " and resid 70 segid "BrD " and resid 69 4.000 4 000 1 500	(29932) segid "BrD " and resid 66 segid "BrD " and resid 66	ro and	1 700 1 700 2) "BrD " and resid 66	2 600 1 700 1 700 (29962)	"BrD " and resid 66 "BrD " and resid 66 1 800 1 800	(30032) (segid "BrD " and resid 51 (segid "BrD " and resid 52 4 100 4 100 3 400	"BrD " and regid 86	2 000	esid 15	and resid 64 and resid 64	and resid 86 and resid 96 800 1 800
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	2 735 ppm3	2 733 ppm2	3 123 ppm2		2 782 ppm2	2 779 ppm2	3 912 ppm2	3 962 ppm2	325	536	2 536 ppm2	2 338 ppm2	2 979 ppm2	1 058 ppm2		1 599 ppm2	1 599 ppm2	1 600 ppm2	0 760 ppm2		0 662 ppm2	1 549 ppm2	1 253 ppm2	1 253 ppm2		1 254 ppm2	1 303 ppm2
	0 35938E+03 ppml	0 10089E+03 ppm1	0.72439E+03 ppm1		0 34874E+02 ppml	0 47090E+03 ppml	0 41973E+03 ppm1	0 27730E+03 ppml	0 16302E+03 ppm1		0 14981E+03 ppm1	0 47841E+00 ppml	0 72273E+03 ppml	0 93003E+02 ppm1		0 14735E+04 ppm1	0.70123E+03 ppm1	0 12667E+03 ppml	0 39776E+02 ppml		o 49710E+02 ppml	0,10505E+03 ppml	0.25930E+02 ppm1	0 48455E+02 ppml		0.68625E+02 ppml	0 89519E+03 ppml
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and name HB1))	ak 26782 and name	and name HH2)) peak 26792 weight	and name HG1)) and name HB1)) peak 26842 weight	ind name	and name	peak 26882 and name and name	peak 27152 weight and name HD1)) and name HA))	peak 27162 weight and name HBI)) and name HA))	peak 27212 weight and name HB2)) and name HB1))	peak 27242 Weight and name HB2))	peak 27252 weight and name HG))	peak 27312 weight and name HB1))	peak 27352 weight	and name HB1)) peak 27412 weight	and name HD2*) and name HG))	and name HD2*)	peak 27522 weight and name HD2%)	and name HB2)) peak 27682 weight	and name HD1%) and name HD%) peak 27922 weight	and name HD2%)	and name HD1%)	eak 28242 weight and name HD2%)	and name HA)) eak 28282 weight	and name HD2%) and name HB1 }) eak 28312 weight	HD24)	Weight HD1%)	HA)) weight HD2%}
(26782) segid "BrD " and resid 94 segid "BrD " and resid 32	1 600 1 600 } "BrD " and resid 94	"BrD " and resid 32 2.200 2.200	(segld "BrD " and reaid 94 (segld "BrD " and reald 94 (2 200 1 200 pes	11 {26862} (segid "BrD " and resid 87 (segid "BrD " and resid 86	3 600 3 200 1.900 I {26882} 6 segid "BrD " and resid 87 6 segid "BrD " and resid 67	1 400 eard 80	1.400 send 80	1 700 181d 77 181d 74	2 000 #81d 80	said 80 esid 80	2 000 resid 56	0 000 est d 55	1 200 esid 81	2 400	eegid "BrD " and resid 22 (segid "BrD " and resid 22	0.300 esid 22	1 200 seld 73	2 100	negld "BrD" and resid 78 segld "BrD" and resid 82 3 600 3 200 1 900 E	seld 78	said 56	2 200 2 200 p	esid 34	aegid "BrD " and resid 56 (aegid "BrD " and resid 34 3 400 2.900 2.100 p	resid 56 resid 34		('megid' BPD' and resid lo2 and name 2 100 2 100 1 100 peak 28672 SSI (28712)
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1 246	1.539	4 752	0 765	1.221	1.066	2 794	2 320	1 252	2 157	1 645	1 718	1 653	1 083	1 084	530	4 6 4		1 989	1 640	1 418			4 626
1.599 ppm2	2 291 ppm2	2 190 ppm2	2 191 ppm2	1 991 ppmz	1 991 ppm2	5 000 ppm2	1 650 ppm2	1 646 ppm2	1 647 ppm2	4 164 ppm2	4 164 ppm2	5 146 ppm2	3 522 ppm2	3 669 ppm2	4 802 ppm2			1 401 ppm2	3 866 ppm2	2 290 ppm2			1 057 ppm2
52799E+03 ppm1	34161E+03 ppm1	12038E+03 ppm1	11935E+03 ppml	15622E+03 ppm1	569805+01 ppml	60152E+02 ppm1	32952E+03 ppml	0.36117E+03 ppml	0 13044E+03 ppml	55913E+02 ppm1	39252E+02 ppm1	32100E+02 ppm1	95501E+02 ppm1	86786E+02 ppml	14301E+03 ppm1	ä		20695E+03 ppm1	61204E+02 ppml	.89516E+02 ppml			20923E+03 ppm1 62220E+02 ppm1
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name HD2%) 6222 weight 0 name HB%)	6602 weight 0 name HB%)	6792 weight name HB%)	name HG2)) 6832 weight 0 name HB%)	name HG2%) 6852 weight 0 name HB%)	sec weight 0	1902 weight 0	6952 weight 0 name HG2%)	name HD2%) 5982 weight 0 name HG2%)	name HG }} 7362 weight	name HG1%) 7412 weight 0 name HA }}	weight	name HD14) 7442 weight 0	name HB2 }) name HD1%) 7462 weight 0	name HB1)) name HD1%) 7472 weight 0	name HA)) name HB2)) 8082 weight	name HD1%) name HA)) 3132 weight	tame HG1))	tame HA))	8282 weight	name HD2%) 8362 weight o name HG))	name HD1%) name HD1%)	8422 weight name HDI%) name HA))	8432 weight o name HD24) name HD24) 8512 weight o
resid 56 1.300 pv resid 31	1.600 px	2 200 P	rD " and resid 86 and 2 200 2 200 peak CD " and resid 113 and	CD " and resid 110 and 2 000 peak CD " and resid 113 and co	TD " and resid 18 and 4.900 0 600 peak TD " and resid 31 and 18	2 200 resid 25	1 600 resid 25	D and resid 56 a 1 600 1 600 pee D and resid 25 a	esid 16	2 100 resid 46	1 900	esid 63 1 800 pe	esid 68 esid 18 2 400 pe	D " and resid 68 and D " and resid 18 and 2 400 2 400 peak	D and resid 98 and 1 D and resid 30 and 1 2 100 2 100 peak	D * and resid 63 and D * and resid 15 and 2 000 2 000 peak	esid 10	D and resid 18 and D and resid 21 and	2 200 esid 18	resid 14 2.400 pe resid 18	resid 14	r e	.800 1.800 " and resid 22 " and resid 78 700 2 200
(segid "BrD " and 2.300 ASSI { 6602} (segid "BrO " and	(segid "BrD " and r. 2 500 1.600 ASSI { 6792} (segid "BrD " and r.	((segid "BxD " and 3 000 2.200 ASSI (6832) (segid "BxD " and	(segid "Br 3 000 ASSI { 6852} (segid "Br	(segld "BrD " and z 2.800 2 000 ASSI (6862) (segld "BrD " and z			(segid "Br 2 500 ASSI { 6982} (segid "Br	8eg1d "BrD" and 1 2 500 1 600 ASSI (7362) 8eg1d "BrD" and r	((segid "BrD " and x 2 900 2 100 ASSI (7412) ((segid "BrD " and z	(segid "Bri 3 400 ASSI (7422) ((segid "Bri	(segid "BrD " and a 3 600 3.200 ASSI { 7442}	(segid "BrD " and r 3 700 3 400 ASSI { 7462}	((segid "Bri (segid "Bri 3 100	* *	~ 5 5 7	ASSI { 8132} (segid "BrD " and) ({ segid "BrD " and) 2 800 2 000	ASSI (8252) ((segid "BrD " and r ((segid "BrD " and r 2 200 ' 600	ASSI { 8282} (8691d "BrD " and x (8691d "BrD " and x	3.300 2.700 ASSI (8362) ((segid "BrD " and	(segid "BrD " and 3 100 2.400 OR { 8362} (segid "BrD " and (segid "BrD " and		22	2 700 1 ASSI (86512) (86914 "BrD (86914 "BrD 3 300 2 ASSI (8522)
																						-	متته
7 603	808	2 370	1.896	4 639	4 639	4 575	4 573	4 008	4.671	4 670	2.0 2.0 2.0		4 656	3 654	3 744	3.744	3 652	1 309	2 351	1 495	1 580	5.380	1 222
2 338 ppm2	3 080 ppm2	3 079 ppm2	3 079 ppm2	3 176 ppm2	1 994 ppm2	2 334 ppm2	2 139 ppm2	2 143 ppm2	2 289 ppm2	2 000 ppm2	2 240 ppm2		zwdd ozg s	2 287 ppm2	2 287 ppm2	2 387 ppm2	2 386 ppm2	1 154 ppm2	3 029 ppm3	2 191 ppm2	2 683 ppm2	2 586 ppm2	2 140 ppm2
21345E+03 ppm1	0 90505£+02 ppml	64111E+03 ppm1	0 14017E+03 ppm1	0 121878+03 ppm1	0 17943E+04 ppm1	0 44758E+03 ppml	0.21060E+03 ppml	0 42305E+03 ppml	0.32351E+04 ppm1	325688+03 ppml	34175E+03 ppm1		reaserus ppmr	12521E+03 ppml	50216E+03 ppm1	19378R+03 ppml	0 15518E+04 ppml	.0163E+04 ppml	0 30439E+02 ppm1	22363E+03 ppm1	o 10809E+03 ppm1	0 14817E+02 ppm1	9496E+02 ppml
0 11000E+01 volume 0 21345E+03	0 11006E+01 volume 0	0.11000E+01 volume 0	0 11000E+01 volume 0	11000E+01 volume 0	0 11000E+01 volume 0	11000E+01 volume	0 11000E+01 volume 0.	0 11000E+01 volume 0	0 11000E+01 volume 0.	0 11000E+01 volume 0	11000E+01 volume 0		0 2000 TO+3000TT 0	0 110006+01 volume 0 72521E+03	0 11000E+01 volume 0 0	0.11000E+01 volume 0 79378E+03	0 11000E+01 volume 0 1	0.10000E+01 volume 0 10163E+04	0 10000E+01 volume 0 3	10000E+01 volume 0 2	0 10000E+01 volume 0 1	0 10000E+01 volume 0 1	0 10000E+01 Volume 0 29456E+02
sid 86 and name HB1)) sid 96 and name HEt) 1 800 peak 30352 weight 0	resid 86 and name HRI)) resid 86 and name HA)) 2 400 peak 30392 weight 0	and name HE1)) and name HB1)) peak 30402 weight 0.	seid 86 and name HE1 }) seid 86 and name HG1 }) 2.100 peak 30412 weight 0	and name HE1 }} and name HA }} ak 30512 weight 0	and name HD1)) and name HA)) ak 30522 weight	resid 109 and name HB1)) resid 106 and name HA)) 1 400 peak 30622 weight D	31d 109 and name HB2)) 81d 106 and name HA)) 1 800 peak 30632 weight 0	aid 97 and name HG2)) aid 97 and name HA)) 1 400 peak 30732 weight 0	and name HD1)) and name HA)) eak 30802 weight	and name HG1)) and name HA)) ak 30862 weight	HD1)) HA)) weight 0	HE1	HD1))	weight HD1)) HE1))	weight HB1))	4619ht	name HE2)} 1052 weight name HD1%)	name HB1)) 1632 weight	and name HG1)) and name HG1)) peak 4042 weight 0 1	and name HD1)) and name HD21) peak 4882 weight 0 1	lame HB1)) lame HD1%) 1902 weight	name HG2)) name HA)) 1992 weight	tame HG)) same HG24) c092 weight
sid 86 sid 96 1 800 pe	86 86 00 pe	8 8 0	1 86 1 86 . 100 pe	resid 109 resid 109 2 100 pe	resid 109 resid 109 0 900 pe	1 109 1 106 400 pe	resid 109 resid 106 1 800 pe	resid 97 resid 97 1 400 pe	resid 104 resid 104 0 700 pe	resid 111 resid 111 1 600 pe	1111 1111 600 pe	111	22 22	200 per 172 1	300 pe	200 pe	4 72 900 pe. 1 110 s	resid 78 and 2 400 peak	1 79 1 80 800 per	resid 19 a resid 63 a 1 800 pea	resid 97 and n resid 101 and n 2,200 peak 4	resid 37 and 1 resid 55 and 1 1 300 peak	, ă
{30352} segid "BrD" and resid 86 segid "BrD" and resid 96 2.700 1 800 1 800	fegid "BrD" and read megid "BrD" and read 3 100 2 400 2 4	0.6	8.8	segid "BrD " and resid segid "BrD " and resid 2 900 2 100 2	segid "BrD " and resid segid "BrD " and resid 1 900 0 900	segid "BrD " and residence and	2 2		* *	* *	1506/2] segid "BrD" and resid 111 and name segid "BrD" and resid 111 and name 2 500 1 600 1.600 peak 30872	(30912) segid "BYD" and resid 111 and name segid "BYD" and resid 111 and name	{31022} segid "BrD " and resid	1 200 1 200 1 200 1 200 1 200 1 200 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 300 1 300 1 300 (31042) segid "BrD " and resid 72	ASSI (31052) and rest	0 900 0 900	((segid "BrD " and residence 2 100 2 100 2 ASSI { 4042}	(eegid "BrD " and resid 79 ((eegid "BrD " and resid 80 3.700 3 400 1 800 1 ASSI (4882)	((segid "BrD " and reside (segid "BrD " and reside 2 700 1 800 1 805 1	0 9	((megid "BrD " and resid ((megid "BrD " and resid 4 200 4 200 1	ecgid "BrD" and resid lis segid "BrD" and resid lis 3 700 3 400 1 800 [6222] segid "BrD" and resid 22

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	19570E+03 ppml		50	ę		80809E+02 pm1	32594E+02 ppml	31695E+02 ppml	788698+01 ppml	91996E+02 ppm1	67300E+03 ppm1	18352E+03 ppm1	14787E+03 ppml	46116E+02 ppml	90515E+02 ppm1	16032E+03 ppml		58134E+02 ppml 18992E+02 ppml	30644E+03 ppml	29522E+02 ppm1	66213E+02 ppm1
	•		01 volume 0	volume 0	volume 0	10000E+01 volume 0 a	10000E+01 volume 0 :	10000E+01 volume 0 :	10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0 (10000E+01 volume 0]	10000E+01 volume 0 1	10000E+01 volume 0 4	10000E+01 volume 0 5	10000E+01 volume 0 1	volume 0	10000E+01 volume 0 1	. volume 0	10000E+01 volume 0 2	10000E+01 volume 0 6
HB2))	9992 weight 0 name HA)) name HB2))	HB2))	HB2)) HG1))	HG1)) HB2)) Weight	4B1)) 4D1%) 4e1ght	and name HB2)) 2 and name HD1%) peak 10842 weight 0 1	and name HB1)) and name HG1)) peak 10912 weight 0 1	and name HB2)) and name HG1)) eak 10922 weight 0 1	and name HA }) and name HA }) peak 10962 weight 0 iv	HG1)) HD2%) weight 0	HA)) HB%) Weight 0	HA)) HEV) weight 0	HE1)) HA)) Weight 0	HB1)) Welght 0 Welght 0 HB2))	MG1)) Weight 0	and name HA // peak 11752 weight 0 1(and name HA // and name HA //	Weight 0 HG2%)	weight o HG1)) HB2)) weight o	HEV) HBI)) Weight 0	and name HA)) and name HDI*) peak 12732 weight 0 10	and name HA)) and name HD2*) peak 12752 weight 0 10
resid 54	1 800 esid 54 esid 59	[10142] [segid "BrD" and resid 70 (segid "BrD" and resid 70 (4 segid "BrD" and resid 73 (4 100 Pt)	EB14 52	resid 61 resid 60 1 800	and resid 30 and resid 103	resid 30 resid 100 2 300	and resid 93 and resid 91 100 1 800	ind resid 93 ind resid 91 00 1 800 p	resid 44 resid 41 0 900	and resid 19 and resid 63 00 2 400	and resid 31 200 1 200	esid 26 2 000	eard 86	2 000 celd 6	2 400	2 000 esid 91	2 000 esid 81	2 200 resid 54 asid 59 1 500	resid 59	and resid 71 and resid 18	and resid 71 and resid 18 700 2 200
ASSI { 9992} ((segid "BrD " and ((segid "BrD " and	2.700 1.800 ASI {10032} ({ segid "BrD " and ({ segid " and ({ segi	ASSI {10142} ((segid "B) ((segid "B)	ASSI (10172) ((segad "BrD " and ((segad "BrD " and 4 200 4.200	ASSI {10512} ({ segid "BrD " ({ segid "BrD " 2.700 1 6		~ = = ~ -		(negad "BrD " of negad "BrD "	(segid "BrD " and (segid "BrD " and (segid "BrD " and 4.600 4.600			(segid "BrD " and segid "BrD " and 2 800 2 000 ASSI 11592	({ wegld "BrD" and r ({ segld "BrD" and r 2 900 2 100 ASSI {11572}	(megid "BrD " and a 3 500 3 100 ASSI { 11642}	((segid "BID " and) 3 100 2 400 ASSI (11752) ((segid "BID " and)	(8e91d "BTD " and r 2 800 2 000 ASSI (11832) (8e91d "BXD " and r (8e91d "BXD " and r	3 500 3 100 ASSI [12292] (megid "BxD " and x (megid "BxD " and x	3 300 2 700 ASSI [12502] ((segad "BrD" and 1 ((segad "BrD" and 2 4 000 4.000	ASSI {12632} { segid "BrD " and i (segid "BrD " and i) 2 500 1.600	{12732} segid "B: segid "B: 3.700 {12753}	12/2 Beg1d 3 300
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1 871	4 809	1 494	4 900	0 758	1 921	1 080	0 924	0 427	1 612	1 320	:	1 143	0 670	1.748 4 536	4 928	2 162	2.182	1 586	0 750	0.676	1 271
1 599 ppm2	1 645 ppm2	2 286 ppm2	2 685 ppm2	1 547 ppm2	1 548 ppm2	1 254 ppm2	0 761 ppm2	0 662 ppm2	4 263 ppm2	1 648 ppm2				1 205 ppm2	1 598 ppm2	2 338 ppm2	1 252 ppm2	1.253 ppm2	1 154 ppm2	1 154 ppm2	1.401 ppm2
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10000E+01 volume 0 124	10000E+01 volume 0 23265E+03	10000E+01 volume 0 24738E+03	0 17130E+03	0 24706E+02	0.13013E+04	0 467178+03	volume 0 156988+02	10000E+01 volume 0 10893E+03 ppml	0 83720E+02	10000E+01 volume 0 31128E+02 ppm1		0 127238+03		0.35280E+03	volume 0 17182E+03	0 110406+03	0 34762E+03	0 339735+03	0 27664E+02	volume 0 49420E+02	.0000E+01 volume 0 18357E+03 ppm1
nd name HD24) nd name HSk) k 8522 weight 0 10000E+01 volume 0 12491E+03	1 name HD1t) 1 name HA)) 8532 weight 0 100008+01 volume 0	name HB2) name HD2*) 8582 weight 0 10000E+01 volume 0	name HB1 }) name HA }) 812 weight 0 10000E+01 volume 0 17130E+03	nome HDIV) name HG2V) 8632 weight 0 10000E+01 volume 0 24706E+02	1 name H011) 1 name H011) 844 weight 0 10000E+01 volume 0.13013E+04	Name HD2%) name HD2%) name HG1%) 8702 weight 0 10000E+01 volume 0 46717E+03	idame iD1f) 8832 weight 0 100008+01 volume 0 156988+02	name HD2%) 8882 weight 0 10000E+01 volume	Dames HG24 8942 weight 0 10000E+01 volume 0 83720E+02 Hanne HG12	1 name HD2*) 9102 Weight 0 10000E+01 volume 1 name HG13))	name HD1k) name HG2k) name HG1k)	9122 Weight 0 100006+01 Volume 0 12723E+03 name HG2*)	9132 weight 0 10000E+01 volume name HD1*)	2172 WEAGHT O LOGODEFOL VOLUME Name HA)	name HG2t) name HB1)) 9412 weight 0 10000E+01 volume 0 17182E+03	name HB1)) name HB1)) 9462 weight 0 l0000E+01 volume 0 ll040E+03	name HG2*) name HB1)) 9502 weight 0 10000E+01 volume 0 34762E+03	hame HG12) 9512 weight 0 10000E+01 volume 0 33971E+03 name HD14)	name HD1\$) 2552 weight 0 10000E+01 volume 0 27664E+02 name HD1\$) name HD1\$)	hame HLZ#) Sec2 weight 0 10000E+01 volume 0 49420E+02 name HGZ#)	name HD14) 9622 weight 0.10000E+01 volume name HD14)
HD24) HS4) weight	HD1t) HA)) weight 0 10000E+01 volume 0	and resid 22 and hame HB2)) and resid 63 and hame HD24) 700 1 700 peak 8582 weight 0 10000E+01 volume 0	## 50 of the second of the sec	reald 56 and name HD1%) reald 81 and name HG2%) 1.700 peak 8632 weight 0 10000E+01 volume 0 24708E+02	res.d 116 and name H012)) res.d 116 and name H011)) 1 000 peak 8642 weight 0 10000E+01 volume 0.13013E+04	reals be and name HD24) 1400 peak 8702 weight 0 10000E+01 volume 0 46717E+03	beard 78 and name HIZ2) 1 400 peak 8812 weight 0 100008+01 volume 0 156988+02 6814 78 and name HIZ2)	resid 18 and name 1928) 2 200 peak 8882 weight 0 10000E+01 volume resid 102 and name HE))	read 101 and name HG2N) 2 400 peak 8942 weight 0 10000E+01 volume 0 83720E+02 read 21 and name HG12)	name HD2*) 9102 weight 0 10000E+01 volume name HG12))	resid 102 and name HD1t) resid 21 and name HO2t) resid 110 and name HO2t)	2.100 peak 9122 weight 0 10000E+01 Volume 0 12723E+03 end 21 and name HC2\$)	9132 weight 0 10000E+01 volume name HD1*)	1 read 21 and name HO2\$) 1 read 10 and name HA) 1 read 106 and name HA) 1 700 peak 9402 weight 0 10000E+01 volume	HG2%) HB1)) weight 0 100008+01 volume 0 171828+03	НВ)) НВ1)) Weight 0 100008+01 volume 0 11040E+03	resid 110 and name HG2t) resid 115 and name HB1)) 1 G00 peak 9502 weight 0 10000E+01 volume 0 34762E+03	M HO24) HO12) weight O 10000E+01 volume O 33973E+03 HD1t)	kensid 78 and name HD18) 1 700 peak 9572 weight 0 10000E+01 volume 0 27664E+02 resetd 110 and name HD18) resetd 17 and name HD18)	reald 's and name High' 10000E+01 volume 0 49420E+02 2.100 pew 5602 weight 0 10000E+01 volume 0 49420E+02 veaid 116 and name HG24)	110 and name HD14) 116 and name HD14)

2 136 3 581 2 218

4.360 ppm2	2 091 ppm2	1.402 ppm2	4 655 ppm2	3 667 ppm2	4.459 ppm2	4 457 ppm2	5 000 ppm2			9 7	498		in in		4 411 ppm2	1.254 ppm2	1 989 ppm2	3 866 ppm2	1 057 ppm2	205		4 460 ppm2	
0.36366E+02 ppm1	944E+03 ppml	.21486E+03 ppml	177E+02 ppm1	251E+02 ppml	54061E+02 ppm1	0.10335E+03 ppm1	61370E+02 ppm1					5			18018E+03 ppm1	23487E+03 ppm1	36391E+02 ppml	30202E+02 ppm1	91159E+02 ppm1	ä	8	5	60436E+03 ppml
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0.10000E+01 volume	+01 volume	+01 volume	+01 volume	+01 volume	+01 volume	•01 volume	101 volume								01 volume	01 volume	01 volum	101 volume	01 volume				01 volume
0.10000E	0 100005+01	0 1000064	0 10060E+01	0 100006	0 10000E+01	0 10000E+01	0 10000E+01	0 100008+01	to tayonor o	9000	0 100000000	0 10000E+01	100430BK+01	0 100000	0 10000E+01	0 10000E+01	0 10000E+01	0 10000E+	0 10000E+01	0 10000E+01	0 100008+01	0 10000E+01	1000008+01
resid 68 and name 1.900 peak 13982	eegid "BrD" and resid 76 and name HB#) segid "BrD" and resid 80 and name HGI)) 2.800 2 000 2 000 peak 14032 weight	resid 14 and name HD resid 70 and name HA 1 800 peak 14052 we	(1411) seegid "BrD" and reeid 14 and name HA)) seegid "BrD" and reeid 113 and name HB!) 3 100 2 400 2 400 peak 14112 weight	(14212) 0egyd 'BrD' and resid 98 and name HB2)) 190914 'BrD' and resid 30 and name HB1)) 1900 3 400 1 800 peak 14212 weight	(1462) and resid 99 and name HA)) segid "BrD" and resid 102 and name HG)) 3 400 2 900 2 100 peak 14222 weight	BFD " and resid 99 and name HA)) BFD " and resid 82 and name HB2)) 2.200 2 200 peak 14242 weight	DED " and resid 31 and name HA)) BPD " and resid 33 and name HD2)) 2 700	reald 31 and name HBV) resid 25 and name HA)) 2 200 peak 14272 weight	cend 110 and name HB)) cend 115 and name HD14)	resid 63 and name HB1))	1 500 peak 14302 weight reaid 103 and name HA))	2 000 peak 14332 weight sold 106 and name HA))	esid 15 and name	1 700 peak 14382 weight seid 110 and name HA))	2 000 peak 14442 weight eaid 110 and name HA)) eaid 115 and name HG))	rD " and resid 110 and name HG2t) rD " and resid 115 and name HD1t) 1 700 1 700 peak 14452 weight	14931 14931 14931 14931 1593	(1402) (BrD * and resid 18 and name HD1%) BrD * and resid 63 and name HG 1) 2 400 2 400 peak 14672 weight	rD and resid 21 and name HD1() rD and resid 63 and name HD2() 2 300 2 200 peak 14702 weight	esid 54 and name HE%) esid 81 and name HGI%) 1 800 peak 14752 weight	resid 51 and name HA)) resid 53 and name HD1)) 0.000 peak 14762 weight	esid 36 esid 57 1 300 p
ASSI)))		Tage Co)))))	1004)))))) j	700	ASSI } }	ASSI ((ASSI ((((ASSI ((ASSI ((ASSI	ASSI ((08 {1	Assi.	100 E		ASS1	ASSI (ASSI (ASSI ((ASSI
2.484	1 075	5 142	5 141	0 190	1,637		1 145	2 516	1 252	1 417	1 148	2,101	3.662	1 996	1.488	1.009	2,508	3 159	4 483	1 030	0 880	1 362	
3.177 ppm2 2.484	3 288 ppm2 1 075	2 486 ppm2 5 142	2 583 ppm2 5 141	, 080 0 mdd 572 E	4 607 ppm2 1.637		1 548 ppm2 1 145		1 795 ppm2 1 252	2 634 ppm2 1 417	2 634 ppm2 1 148	2 537 ppm2 2.101	5 296 ppm2 3.662	1 498 ppm2 1 996	4 951 ppm2 1 488	1 646 ppm2 1.009	4 656 ppm2 2.508		2 636 ppm2 4 483	1 425 ppm2 1 030			
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0.10000E+01 volume 0.44554E+02 ppm1 3.177 ppm2	0 100006+01 volume 0 51686E+02 ppm1 3 288 ppm2 1	0 10000E+01 volume 0 10760E+03 ppml 2 486 ppm2	0 10000E+01 volume 0 13268E+03 ppm1 2 583 ppm2 5	0 100008+01 volume 0 45934E+02 ppml 3 275 ppm2	ррт. 4 607 ррт2		0 10000E+01 volume 0 18778E+03 ppml 1 548 ppm2	0 10000E+01 volume 0 34390E+03 ppm1 1 648 ppm2 2	0 10000E+01 volume 0 12726E+03 ppml 1 795 ppm2 1	2 634 ppm2 1	0 10000E+01 Volume 0 18896E+02 ppml 2 634 ppm2 1	0.10000E+01 volume 0 37432E+02 ppml 2 537 ppm2	+02 ppml 5 296 ppm2	ppm1 1 498 ppm2 1	4 951 ppm2 1	.02 ppml 1 646 ppm2	4 656 ppm2	+02 ppml 2 685 ppm2 3	ppm1 2 636 ppm2 4	1 425 ppm2 1	1 425 ppmZ 0	5 298 ppm2 1	
tak 12872 weight 0.10000E+01 volume 0.44554E+02 ppml 3.177 ppm2	and name (011) and name (011) sak 13092 Weight 0 10000E+01 Volume 0 51686E+02 ppm1 1 288 ppm2 1	HB2 }) (AA)) weight 0 l0000E+01 volume 0 l0760E+03 ppml 2 486 ppm2	HB1)) NA)) weight 0 10000E+01 volume 0 13268E+03 ppm1 2 583 ppm2 5	HB1)) HG2%) weight 0 100008+01 volume 0 45934E+02 ppml 3 275 ppm2	HA }} HO2t) weight 0 10000E+01 volume 0 86018E+02 ppml 4 607 ppm2	and name (BLk)) and name (BLk) and name (ALL)	HD18), weight 0 10000E+01 volume 0 18778E+03 ppml 1 548 ppm2		HIGAN) HIGH 0 10000E+01 Volume 0 12726E+03 ppml 1 795 ppm2 1	HB) (10011) weight 0 100005+01 volume 0 27123E-01 ppml 2 634 ppm2 1	HD14) HD14) weight 0 10000E+01 volume 0 18896E+02 ppm1 2 634 ppm2 1	161)) 161)) weaght 0.10000£+01 volume 0 374328+02 ppml 2 537 ppm2	HAI)) HBI)) weight 0 10000E+01 volume 0 44471E+02 ppml 5 296 ppm2	HBZ)) weight 0 100008+01 volume 0 20264E+01 ppml 1 498 ppm2 1	NA }) weight 0 10000E+01 volume 0 18294E+02 ppm] 4 951 ppm2 1	HG1%) HG2%) Weight 0 10000E+01 Volume 0 26015E+02 ppml 1 646 ppm2	HAB)) HAB2)) weight 0 10000E+01 volume 0 14558E+02 ppml 4 656 ppm2	HHB1) ************************************	HR2)) weight 0 10000B+01 volume 0 56015E+02 ppml 2 636 ppm2 4	H021) H021) 10008-01 volume 0.156888-02 ppml 1 425 ppm2 1	MG21) HH21) 10.00008+01 Volume 0.14355E+01 ppm1 1 425 ppm2 0	HA)) WEDSH (10000E+01 Volume 0 11539E+01 ppml 5 288 ppm2 1	and name HA)) and name HDIV) and name HA))
ak 12872 weight 0.10000E+01 volume 0.44554E+02 ppml 3.177 ppm2	and name (011) and name (011) sak 13092 Weight 0 10000E+01 Volume 0 51686E+02 ppm1 1 288 ppm2 1	and name HE2)} And name HE2)} peak 13112 weight o 10000E+01 volume o 10760E+03 ppml 2 466 ppm2	and name HB1), and name HB1), peak 13122 weight 0 10000E+01 volume 0 13268E+03 ppml 2 583 ppm2 5	and name HO34) and name HO34) peak 11212 weight 0 100008+01 volume 0 45934E+02 ppml 3 275 ppm2	and name HDs.) heak 13282 wergikt 0 10000E+01 volume 0 66018E+02 pmn1 4 607 ppm2	bid 56 and name HA.) bid 22 and name HD.*) bid 22 and name HD.?)	HD18), weight 0 10000E+01 volume 0 18778E+03 ppml 1 548 ppm2	and name MD11) and name MD21) peak 13332 weight 0 10000E+01 volume 0 34390E+03 ppm1 1 646 ppm2 2	ond name HO21) and name HO21) peak 13412 weight 0 100008+01 volume 0 127268+03 ppml 1 795 ppm2 1	HB) (10011) weight 0 100005+01 volume 0 27123E-01 ppml 2 634 ppm2 1	and name #1914) and name #1914) peak 1352 weight 0 10000E+01 volume 0 1609EE+02 ppml 2 634 ppm2 1	and name HE(1) and name HE(1) peak 13682 weight 0.10000E+01 volume 0 374328+02 ppml 2 537 ppm2	anth name Hb.) anth name Hb.) peak 11712 weight 0 10000E+01 volume 0 44471E+02 ppml 5 296 ppm2	def name HE2) set (1922) peak HE2) (1922) to (and name MLDA) and name MLDA) peak 13772 weight 0 10000E+01 volume 0 18294E+02 ppml 4 951 ppm2 1	and name MG21; unclamae MG22; peak 13792 weight 0 10000E+01 volume 0 36015E+02 ppml 1 646 ppm2	and name Ms.) Land name Ms.) peak lislz weight O 10000E+01 volume O 14558E+02 ppml 4 656 ppm2	and name HB2)) and name HB2)) peak lB312 weight 0 100006+01 volume 0 92421E+02 ppml 2 685 ppm2 3	and name HR2)) and name HR2)) peak lide2 weight 0 10000E+01 volume 0 56015E+02 ppml 2 636 ppm2 4	and name HO2*) And name HO3*) December 1362 weight 0 10000E*01 volume 0.35688E*02 ppml 1 425 ppm2 1	and name NG21) and name NG21) ppack A.3872 0.00000E+01 volume 0.14355E+01 ppm. 1 425 ppm. 0	and name HA }} and name HA }} pask 13892 weight 0.10000E+01 volume 0 11539E+01 ppml 5 298 ppm2 1	12 and name 14 and name 74 and name
tak 12872 weight 0.10000E+01 volume 0.44554E+02 ppml 3.177 ppm2	and name (011) and name (011) sak 13092 Weight 0 10000E+01 Volume 0 51686E+02 ppm1 1 288 ppm2 1	sead 31 and name HS2}} 2.200 peak 13112 weight 0 10000E+01 volume 0 10760E+03 ppml 2 466 ppm2	asid 68 and name HEI) asid 68 and name HEI) 2 100 peak 13122 weight 0 10000E+01 volume 0 13268E+03 ppml 2 583 ppm2 5	renaid 46 a ond name HER1) renaid 38 and name HER2) 2 000 peak 11222 waight 0 100008+01 volume 0 45934E+02 ppml 3 275 ppm2	send 56 and name HAA)} sand 22 and name HD24} 2.400 peak 13282 weight 0 10000E+01 volume 0 66016E+02 ppm1 4 607 ppm2	said 56 and name said 22 and name	cead 110 and name HD14) 1 400 peak 13322 weight 0 10000E+01 volume 0 18778E+03 ppml 1 548 ppml2 1 300 peak 13322 weight 0 10000E+01 volume 0 18778E+03 ppml	354 2 2 and name H11.) 1 600 peak 13332 weight 0 10000E+01 volume 0 34390E+03 ppm1 1 648 ppm2 2	abad 25 and hame HG11) 2 100 peak 13412 weight 0 100006+01 volume 0 12726E+03 ppml 1 795 ppm2 1	resid 49 and name HBJ) 0 000 peak 13572 weight 0 10000E+01 volume 0 27123E-01 ppml 2 634 ppm2 1	equal 49 and name #81 1	sead 54 and name HSEs) and 52 and name HSI), and 52 and name HSI), 1 900 peak 13682 weight 0.10000E+01 volume 0 37432E+02 ppml 2 537 ppm2	esid 63 and name H31)) 2 000 peak 13732 weight 0 10000E+01 volume 0 44471E+02 pgml 5 296 ppm2	acad for and name NDSV) setd 19	### ### ### ### ### ### ### ### ### ##	asa da en aname MIZI) 2004 Son andame MIZI) 1700 peak 13792 weight 0 10000E+01 volume 0 26015E+02 ppml 1 646 ppm2	as.d 56 and name Mt.) 1) and 80 and name Mt.) 1 1 300 peak 13812 weight 0 10000E+01 volume 0 14558E+02 ppml 4 656 ppm2	enal 56 and name HBL)) resul 48 and name HBL)) 2 400 peak 13632 weight 0 100006+01 volume 0 92421E+02 ppml 2 685 ppm2 3	resid 67 and name HR2 }) resid 62 and name HA2 }) resid 62 and name HA3 }) 7 to pesk 1384 weight 0 10000B/01 volume 0 56015B+02 ppml 2 636 ppm2 4	resid 69 and name HG2#) 1900 peak 1360 weight 0 10000E+01 volume 0.35688E+02 ppml 1 425 ppm2 1	resid 69 and name HG2N) **Resid 18 and name HG2N) **On peak 1.387 Me2H	resid 12 and name HA }) 2 000 peek 1389 beight 0.10000E+01 volume 0 11539E+01 ppml 5 298 ppm2 1	resid 12 and name resid 14 and name resid 74 and name
tak 12872 weight 0.10000E+01 volume 0.44554E+02 ppml 3.177 ppm2	send 54 and name HO14) 2.100 peak 13092 Weight 0 100006+01 volume 0 51666E+02 ppm1 3 288 ppm2 1	and Yeard 75 and name HB2)) and Yeard 66 and name HB3)) 200 2.200 peak 13112 weight 0 10000E+01 volume 0 10760E+03 ppml 2 486 ppm2	asid 68 and name HEI) asid 68 and name HEI) 2 100 peak 13122 weight 0 10000E+01 volume 0 13268E+03 ppml 2 583 ppm2 5	renaid 46 a ond name HER1) renaid 38 and name HER2) 2 000 peak 11222 waight 0 100008+01 volume 0 45934E+02 ppml 3 275 ppm2	send 56 and name HAA)} sand 22 and name HD24} 2.400 peak 13282 weight 0 10000E+01 volume 0 66016E+02 ppm1 4 607 ppm2	(! segald "BED" and real; 56 and nome HD1\$) (segald "BED" and real; 22 and name HD1\$) (segald "BED" and name HD1\$) (segald "BED" and name HD12)	cead 110 and name HD14) 1 400 peak 13322 weight 0 10000E+01 volume 0 18778E+03 ppml 1 548 ppml2 1 300 peak 13322 weight 0 10000E+01 volume 0 18778E+03 ppml	354 2 2 and name H11.) 1 600 peak 13332 weight 0 10000E+01 volume 0 34390E+03 ppm1 1 648 ppm2 2	ceard 45 a vaid hame HD21) 2 100 peak 13412 weight 0 100008+01 volume 0 127268+03 ppml 1 795 ppm2 1	htp " and rest4 ds and name HB)) ird "and rest4 50 and name HB11) ird "and rest4 50 and name HB11) ird "and rest4 50 one peak 11372 weight 0 10000E+01 volume 0 27123E-01 ppml 2 634 ppm2 1	DP and tasaid 49 and name (BB)) 4 000	sead 54 and name HSEs) and 52 and name HSI), and 52 and name HSI), 1 900 peak 13682 weight 0.10000E+01 volume 0 37432E+02 ppml 2 537 ppm2	btD * end resid 6s and name HA)) 10 * and resid 6s and name HA) 100 2 000 peak 13732 weight 0 10000E+01 volume 0 44471E+02 pgml 5 296 ppm2	acad for and name NDSV) setd 19	sisd 64 and name Ma.) sid 62 and name HIZsh 1 500 peak 13772 weight 0 100005+01 volume 0 182948+02 ppml 4 951 ppm2 1	and name MG21; unclamae MG22; peak 13792 weight 0 10000E+01 volume 0 36015E+02 ppml 1 646 ppm2	as.d 56 and name Mt.) 1) and 80 and name Mt.) 1 1 300 peak 13812 weight 0 10000E+01 volume 0 14558E+02 ppml 4 656 ppm2	and name HB2)) and name HB2)) peak lB312 weight 0 100006+01 volume 0 92421E+02 ppml 2 685 ppm2 3	resid 67 and name HR2 }) resid 62 and name HA2 }) resid 62 and name HA3 }) 7 to pesk 1384 weight 0 10000B/01 volume 0 56015B+02 ppml 2 636 ppm2 4	resid 69 and name HG2#) 1900 peak 1360 weight 0 10000E+01 volume 0.35688E+02 ppml 1 425 ppm2 1	itD " and reard 69 and name NG21) irD " and reard 12 and name HES!) 0.10000E+01 volume 0.14358E+01 ppm1 1 425 ppm2 0 5 500	"app and resid 12 and hamme MA)) "app and resid 12 and hamme MA)) "app and resid 14 and hamme MA) "app or 2000 peak 1389 be object 0.10000E+01 volume 0 11539E+01 ppml 5 298 ppm2 1 200	12 and name 14 and name 74 and name

1.075 4 222 2 956

7.496	1 495	1 562	1 645	4 802	0 758	7 632	2 227			618		4.	4 618	7 039		7.511	7 634	5 444	7 053	3,576	7 790	690 E	7 719	1 319	
3.524 ppm2	3 522 ppm2	3 621 ppm2	3 620 ppm2	4 409 ppm2	4 409 ppm2	3 134 ppm2	4 008 ppm2			zwdd 686 s		2	3 677 ppm2	4 557 ppm2		4.556 ppm2	4 558 ppm2	4 804 ppm2	3 676 ppm2						
.47079E+02 ppml	45471E+02 ppm1	59473E+01 ppm1	.72449E+01 ppm1	78759E+03 ppm1	17647E+02 ppm1	47985E+02 ppm1	14266E+02	004008061		Tudd 20+38-6011	60000		0.62256E+03 ppml	17840E+02 ppm1		63095E+03 ppm1	10621E+03 ppm1	15155E+01 ppm1	0.99455E+02 ppml	47084E+03	169668+03	43323E+03	ő	22025E+02	
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peak 16312 and name	and name peak 16382	and name and name peak 16422	6 and name HD2)) 3 and name HD1%) 0 peak 16432 weight 0	and name HA }) and name HA }) peak 16492 weight	and name HA)) and name HG2)) peak 16502 weight	6 and name HB2)) 6 and name HE*) 0 peak 16612 weight 0	and name and name peak 16662	and name and name	and name	and name	and name	and name HB2))	eak 16842 and name and name	eak 16682 weight	82 and name HZ))	resid 106 and name HA }} resid 106 and name HD\ } 1.200 peak 16892 weight 0	resid 106 and name HA)) resid 106 and name HBt) 2 200 peak 16902 weight 0.	7 and name HA)) 6 and name HA)) 9 peak 16932 weight 0	16 and name HB2)) 2 and name HE%) 3 peak 16972 weight 0	and name HA)) and name HB1)} peak 17032 weight 0	and name HA)) and name HH2 }) beak 17072 weight 0	and name HA }) and name HG2 }) peak 17192 weight 0	and name HA)) and name HDt) beak 17342 weight	and name HB2)) and name HD1*) tak 17352 weight 0	and name HB2))
2 2	(segid "BrD " and resid 63 3 500 3.100 2 000 ASSI [16422]	d "BrD " and resid 66 d "BrD " and resid 69 0 4 900 0 600 32}	Segid "BrD " and resid 65 Segid "BrD " and resid 63 4 700 4 700 0.800	d "BrD" and resid 96 d "BrD" and resid 86 0 1 200 1 200	d "BrD " and resid 96 d "BrD " and resid 86 0 4 100 1 400	12} d "BrD " and resid 96 d "BrD " and resid 96 0 2 900 2 100	{ 16662} { segid "BrD " and resid 96 segid "BrD " and resid 99 4 200 4.200 1.300	(16672) segid "BrD " and resid 96 segid "BrD " and resid 99 4 200 1 300	BrD and	"BrD " and	BrD " and resid "BrD " and resid	(16842) segid "BrD " and resid 15 segid "BrD " and resid 15	2 200 1 200 1 200 P {16882} segid "BrD" and resid 106 segid "BrD" and resid 82	4 100	"BrD " and	"BrD " and "BrD " and 1 200	[16902] segid "BrD " and resid 10 segid "BrD " and resid 10 3.000 2.200 2.200	{16932} segid "BrD" and resid 57 segid "BrD" and resid 36 5 500 5 500 0 000 p	[{16972} segid "BrD " and resid 106 segid "BrD " and resid 82 3 000 2 200 2 200 p	[{17032} segid "BrD " and resid 62 segid "BrD " and resid 67 2 400 1 400 1 400	0 0	rD and rD and	{17342} segid "BrD " and reald 97 segid "BrD " and reald 96 2 800 2.000 2.000	(17352) segid "BrD " and resid 34 segid "BrD " and resid 102 3 900 3.800 1 600 pa	"BrD " and resi
3.50 ASSI (1631)	ASSI (164)	(segid (segid 4.900 ASSI {16432	(segu (segu (segu 4 701	(segret (s	ASSI LESSICAL (REGIDAL)	ASSI {166. ({ segn (segn 3 400	ASSI {1660 ((segio (segio 4 200	ASSI (1667 ((segic (segic	ASSI (16682 ((segid ((segid ()	OR (16682) ((Begin	ASSI (16792 ((segid ((segid 2 700	ASSI {1684 ((seguc ()	ASSI (1688 ((segic (segic	4 100 OR (16882)	(segid (segid ASSI (16892	((segic (segic 2.200	ASSI (1690) ((86916) (86916) 3.000	ASSI (1693 ((segic (segic 5 500	ASSI (1697) (1 segid (segid 3 000	ASSI {1703 ((Begid ((Gegid 2 400	ASSI (1707 ((segid ((segid 2,800	ASSI (1719 ((Begld ((Begld 2.400	ASSI {17342} ({ Begid "B { Begid "B 2 800	ASSI (17352 (segad (segad (segad 3 900	OR {17352} ({ segid (segid (segid
1 075		7 934	7 933	1 571	2 312	1 693	1 474	2 206	2 206	1 897	2 540	7 827	3 900		1 652	8.022	2.367	866 9	3 148	3 149	2 883	2 884	2 605	1 571	
3 275 ppm2	Ì	3 276 ppm2	3 077 ppm2	4 165 ppm2	3 374 ppm2	3 572 ppm2	3 572 ppm2	3 572 ppm2	3 672 ppm2	3 573 ppm2	3 670 ppm2	3 673 ppm2	4 606 ppm2		3 815 ppm2	3 670 ppm2	5 148 ppm2	3 522 ppm2	3 669 ppm2	3 522 ppm2	3 669 ppm2	3 522 ppm2	3 522 ppm2	4 999 ppm2	
0 200558+02 ppm1		0.96365E+01 ppml	0 71990E+02 ppm1	0.38868E+02 ppml	0 15966E+03 ppm1	0 19603E+02 ppm1	0 11033E+02 ppm1	0.10551E+03 ppm1	0 12753E+03 ppm1	0 31328E+02 ppm1	0 86957E+02 ppml	0 63746E+03 ppm1	0 673338+02 ppm1		0 19033E+02 ppm1	0 26167E+03 ppm1	0 20921E+02 ppm1	0 38285E+02 ppm1	0 90000E+01 ppml	0 43825E+02 ppm1	0.35724E+02 ppm1	0.44106E+02 ppm1	0 16622E+02 ppm1	0.71276E+02 ppml	
0 10000E+01 volume	200000 to 200000 to	volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 100005+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 lobboE+01 volume	0 10000E+01 volume	0 10000E+01 volume (0 10000E+01 volume	0 10000E+01 volume	
and name HB1)) and name HG1*) peak 15012 weight	and name HB1)) and name HDt)	peak 15032 Weight and name HB2)) and name HD*)	peak 15042 weight and name HA })	peak 15052 weight and name HB2))	and name HBI))	peak 15182 weight and name HB1))	and hame HGZ /) peak 15192 weight and hame HBZ))	and name HB# } peak 15402 weight and name HB1 })	and name HB%) peak 15412 weight	and name HB2)) ak 15552 weight	and name HB1)) and name HG2)) ak 15592 weight	and name HB1)) and name HD%) ak 15712 weight	and name HA)) and name HA)) peak 15812 weight	HB1))	weight	and name HBl }) 7 and name HZ }) peak 15932 weight		and name HB2)) and name HD%) peak 16062 weight	and name HB1)) and name HD1)) peak 16112 weight	and name HB2)) and name HD1)) peak 16123 weight	and name HB1)) and name HB1)) peak 16132 weight	and name HB2)) and name HB1)) peak 16152 weight		HA)) HG2%)	and name HB1)) and name HD%)
resid 46 resid 38	esid 46	resid 46	2.300 celd 46	1 900 eard 28	000 2 000 and resid 67	1 500 resid 67	1 100 1 100 eard 82	2 200 pr	2 100 2 100 pe	.D " and resid 103 and name H 3 400 1 800 peak 15552 w	egid "BrD " and resid 107 and name egid "BrD " and resid 103 and name 15592 100 2 400 peak 15592 15712)	வ் வ்	said 15 2 200	seld 15	1 500	resid 82 resid 10 1 700	esid 68 esid 73 1 500	send 68 251d 74 1 900	1 000 t	sid 68 sid 62 2 000	and resid 63 and resid 63 200 1.900	and resid 68 and resid 63 100 2 000	and resid 62 and resid 62	and resid 88 and resid 49 600 2 300	" and resid 88 " and resid 95
((segid "BrD (segid "BrD 4 000 4	ASSI (15032) ((segid "BrD " and 2 (segid "BrD " and 2 4.500 4.500	ASSI {15042} ((segid "BrD " and r (segid "BrD " and r	3 200 2 600 ASSI (15052) ({ segid "BrD " and z (segid "BrD " and z	3 600 3 200 ASSI {15092} ([segid "BrD " and { segid "BrD " and	2 800 {15182} segid "Br	4 000 {15192} segid "Br	ASSI (15402) ((segid "BrD " and r	(Begid Br 3 000 ASSI {15412} ((segid "Br	# ~ C 8	3 8	((segid "Bri ((segid "Bri 3.100 ASSI (15712)	{	((segid "BrD " and r ((segid "BrD " and r 3 300 2 700	\SSI {15882} ({ segid "BrD " and re (seqid "BrD " and re	4 000 ASSI {15932}	((segid "BrD " and a ((segid "BrD " and a 2 600 1 700 ASSI (16052)	Begid Br	(segid "BrD " and 3 200	(seepid "BrD" and ref (seepid "BrD" and ref 4 500	(segid "BrD (segid "BrD) 3.500 3	{16132} megid "Br eegid "Br 3 600	{16152} ecgid "Br ecgid "Br 3 500	48SI {16162} ((segad "BrD ((segad "BrD 4 100 4		ASSI {16312} ({ segid "BrD (segid "BrD

1 996	3.248		3 101	1 539	2 938	2 460	7 552		4 826	4 427	3 597	3 003	2 906	2 824	929 0	1 425		1 327	1 547	1.914	1.865	986
	2 782 ppm2		2 782 ppm2	2 782 ppm2	2 782 ppm2	2 781 ppm2	3 226 ppm2		2 634 ppm2	2 634 ppm2	2 634 ppm2	2 634 ppm2	2 634 ppm2	2.634 ppm2	2 634 ppm2	2.634 ppm2		2 634 ppm2	2 635 ppm2	2 635 ppm2	2 635 ppm2	634
23045E+02			0.11214E+03 ppml	15609E+03 ppml	0.43055E+03 ppml	0 292068+03 ppm1	0 50782E+01 ppml		0.10304E+03 ppml	51911E+02 ppm1	13576E+03 ppm1	11929E+03 ppm1	33115E+02 ppm1	0 10446E+04 ppm1	0.60943E+01 ppml	27797E+03 ppml		0.15408E+03 ppml	0.36651E+02 ppml	79723E+01 ppm1	0.40230E+02 ppm1	
10000E+01 volume	10000E+01 volume		10000E+01 volume	10000E+01 volume 0	0 10000E+01 volume 0	10000E+01 volume	0 10000E+01 volume 0		10000E+01 volume	10000E+01 volume 0	0.10000E+01 volume 0	10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0		10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0	100608+01 volume 0	volume
beid 113 and name HG1)) 1 600 peak 18142 weight 5914 35 and name HEt) seid 60 and name HEt)	peak 19204 Weight and name HEY) and name HG2)) peak 18302 weight	meid 59 and name	2 200 estd 35	and name peak 18352	esid 55 and name HER) esid 57 and name HBI)) 1 400 peak 18362 weight	181d 35	esid 59 and name HG1)) esid 74 and name HE%) 0 500 peak 18492 weight	sid 74 and name	segid "BrD" and reald 75 and name egid "BrD" and resid 17 and name 3 000 2 200 2 200 pcak 18542 {18642}	esid 75 and name HE*) esid 110 and name HA }) 2 100 peak 18642 weight 0	segid "BrD " and resid 75 and name HEV) segid "BrD" and resid 74 and name HB1)) 2.900 2 100 2 100 peak 18662 weight [18682]	(segid "BtD" and resid 75 and name HEt) (segid "BtD" and resid 74 and name HB2)) 3.000 2 200 2 200 peak 18682 weight 0 ASSI (18722)	10.00 20 20 20 20 20 20 20	send 75 and name HE4) 2 400 peak 18732 weight	seld 75 and name HE%) seld 78 and name HD2%) 0 600 peak 18762 weight	Account of the county of the county of the county of a segud "BrD" and resid 14 and name HD1t) 2 600 1 700 1.700 peak 18772 weight 0 April 19773	seld 75 and name	segid "BrD " and resid 75 and name HEt) segid "BrD " and resid 115 and name HDIt) 2.800 2.000 2.000 peak 18782 weight 0	(18812) segid "BrD" and resid 75 and hame HEF) segid "BrD" and resid 116 and name HO12)) 3 600 3 200 1 900 peak 18812 weight 0	(18862) eegad "BED" and resid 75 and name HE*) segad "BED" and resid 116 and name HG11) 4 600 4 600 0 900 peak 18862 weight 0	(18872) segud "BrD" and resid 75 and name HE%) segud "BrD" and resid 59 and name HE%) 3.500 3 100 2 000 peak 18872 weight 0	read 75 and name HE\$) 1 800 peak 18882 weight read 75 and name HE\$)
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1 317	7 774	4.907	7 903	7 706	7 263	7 063	4 45.2			3 654	444	2 304	7 707	4 443	4 444	7.699	4 662	2,482		1 327	1.661	2 165
4 114 ppm2 1 317	3 122 ppm2 7 774	5 544 ppm2 4.907	0 759 ppm2 7 903	0 761 ppm2 7 706	0 763 ppm2 7 263	,	2 mag		ppmz	ppm2 3	ppm2 4	2 782 ppm2 2 304	2.190 ppm2 7 707	1 055 ppm2 4 443	-0 176 ppm2 4 444	-0 174 ppm2 7.699	3 524 ppm2 4 662	3 227 ppm2 2.482		3 226 ppm2 1 327	3.226 ppm2 1.661	
ppm1 4 114 ppm2 1	0 24806E+02 ppml 3 122 ppm2 7	0 81169E+01 ppml 5 544 ppm2	0 45996E+02 ppml 0 759 ppm2 7	0 32265F+03 ppm1 0 761 ppm2 7	0.48682E+03 ppml 0 763 ppm2 7	0 15950E+03 ppm1 0 760 ppm2 7	0 116338+03 ppm1 0 859 ppm2 4		o stooderack ppak o and ppmr	0 94735E+02 ppml 0 859 ppm2 3	0 53516E+02 ppml -0 324 ppm2 4	0 42246E+02 ppml 2 782 ppm2 2	0 211555402 ppml 2.190 ppm2 7	0 26579E+02 ppm1 1 055 ppm2 4	0 22889E+02 ppml -0 176 ppm2	0 30273E+02 ppml -0 174 ppm2	0 74474E+02 ppml 3 524 ppm2 4	0 28930E+03 ppml 3 227 ppm2		0 10857E+02 ppml 3 226 ppm2 1	0.16621E+02 ppml 3.226 ppm2	0.471428+02 ppml 3 522 ppm2 2
0 100005+01 volume 0.120135+02 ppm1 4 114 ppm2 1	0 10000E+01 Volume 0 24806E+02 ppm1 3 122 ppm2 7	0.10000E+01 volume 0 81169E+01 ppml 5 544 ppm2	O 10000E+01 volume O 45996E+02 ppml O 759 ppm2 7	r o 10000E+01 volume o 32265F+03 ppm1 0 761 ppm2 7	() 1 1 10000E+01 volume 0.48682E+03 ppml 0 763 ppm2 7	0 10000E+01 volume 0 15950E+03 ppm1 0 760 ppm2 7	0 10000E+01 Vollume 0 11633E+03 pom1 0 859 prm2 6	CONTRACTOR	o totologista volume o storesta past o ess pomit e	0 100008+01 volume 0 94735E+02 ppml 0 859 ppm2 3	0 100005+01 volume 0 535165+02 ppm1 -0 324 ppm2 4	0 10000B+01 volume 0 42246B+02 ppml 2 782 ppm2 2	0 10000E+01 volume 0 21155E+02 ppml 2.190 ppm2 7	0 10000E+01 volume 0 26579E+02 ppml 1 055 ppm2 4	0 10000E+01 volume 0 22889E+02 ppml -0 176 ppm2	0 10000E+01 volume 0 30273E+02 ppm1 -0 174 ppm2	0 100008+01 volume 0 74474E+02 ppml 3 524 ppm2 4	0 10000E+01 volume 0 26930E+03 ppml 3 227 ppm2	aa a	t 0 10000E+01 volume 0 10857E+02 ppml 3 226 ppm2 1	t 0 10000E+01 volume 0.16621E+02 ppml 3.226 ppm2	0 100008+01 volume 0.471428+02 ppml 3 522 ppm2 2
10000E+D1 Volume 0.12013E+02 ppml 4 114 ppm2 1	reaid 34 and hame HE2)) reaid 34 and hame HE2)) 1 700 peak 17452 weight 0 10000E+01 volume 0 24806E+02 ppml 3 122 ppm2 7	restd 34 and name (BA)) restd 34 and name (BA)) 0 900 peak 17602 weight 0.10000E+01 volume 0 81169E+01 ppml 5 544 ppm2	11 31 31 11 11 11 11 11 11 11 11 11 11 1	hid " and reast 8; and name HO24) 110 " and read 3; and name HD4) 1 1 600	eegid "Brp" and resid 81 and name HO24) eegid "Brp" and creat 62 and name HPR 10000E-01 volume 0.48662E-03 ppml 0 763 ppml 7 2 300 1.100 pekl 1785 weight 0 10000E-01 volume 0.48662E-03 ppml 7 7	segid "BID" and reaid B1 and name HGZ#) segid "BID" and reaid B2 and name HGZ# and name PD 1000E*01 volume 0 15950E*03 ppm1 0 760 ppm2 7 2 800 2 000 2 000 pack 1765 be xsight 0 10000E*01 volume 0 15950E*03 ppm1 0 760 ppm2 7	YD * and Yeald 33 and name HO1) YD * and Yeald 95 and name HA.) Z 200 Z 200 peak JTY washb) 100006+01 Yollume 0 116338+03 pom1 0 689 nam2 4	and name (GI)	pear 175s weight. O LONGeroll Volume U SLOUPE-VOZ Ppm1. U 959 ppm2. and name HOZ 1)	2 400 2 400 peak 17742 weight 0 100008-01 volume 0 947358-02 ppml 0 859 ppm2 3 100 and teak 31 and name HOS.) Dr and teak 43 and name HA))	2 900 2 100 peak 17762 weight 0 100008-01 volume 0 515168-02 ppml -0 234 ppm2 4 ppm regard 31 and name HD1)	ask 17782 weight o 10000E+01 volume o 42246E+02 ppml 2 782 ppm2 2 and name HF2) is and name HF2)	3 900 3 800 1.600 peak 17902 weight 0 10000E+01 volume 0 21155E+02 ppml 2.150 ppm2 7 [17953] and read 3 and name HBJ.)	l story 3 600 1 700 peak 17952 verght o 100006+01 volume O 26579E+02 ppml 1 055 ppm2 4 [17962] and read and read 3 and name HE3 () second "BTD" and read 45 and name HE3 ()	1 600 peak 17962 weight 0 100008-01 volume 0 228898-02 ppml -0 176 ppm2 mend 31 and name HR2)	1 800 peak 17982 weight to 10000E+01 volume 0 30273E+02 ppml -0 174 ppm2 seed 75 and name HO.1)	2.300 peak 18012 weight 0 10000E+01 volume 0 74474E+02 ppml 3 524 ppm2 4 said 59 and hame HOI))	and name HB2)) peak 18052 weight 0 100005+01 volume 0 289305+03 ppml 3 227 ppm2	esid 59 and name	restarts and handwards 0 10000E+01 volume 0 10857E+02 ppml 3 226 ppm2 1.100 ppm 4 18.00 pc seght 0 10000E+01 volume 0 10857E+02 ppml 3 226 ppm2 1 restd 59 and name HG2))	t 0 10000E+01 volume 0.16621E+02 ppml 3.226 ppm2	### ### ### ### ### ### ### ### ### ##

64 62 64	2 507	1 783	1 432	2 327	7.781		2.613	2.784	7 771	7 259	1.922	1 222
2 092 ppm2	2 092 ppm2 2 092 ppm2	2 092 ppm2	2 092 ppm2	4 656 ppm2	2 190 ppm2	190	2 190 ppm2	2 092 ppm2 4 459 ppm2	4 459 ppm2	4 459 ppm2	4 458 ppm2	4.903 ppm2
0 15977E+03 ppml	21436E+03 ppm1 15327E+03 ppm1	32487E+03 ppml	35020E+02 ppml 16681E+03 ppml	95067E+02 ppml 65240E+03 ppml	50164E+03 ppml 36039E+03 ppml	92786E+02	10256E+03 ppm1	0 45000E+02 ppm1	21467E+03 ppml 71395E+02 ppml	0 15492E+03 ppml 0 16591E+03 ppml	24667E+03 ppm1	0.15803E+02 ppml 0 48759E+02 ppml
0 10000E+01 volume 0	10000E+01 volume 0	0 10000E+01 volume 0	10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	volume	O 10000E+01 Volume o	0 10000E+01 volume 0	0 10000E+01 Volume 0	0 10000E+01 volume 0	0.10000E+01 volume 0	10000E+01 volume 0.
said 76 and name HBs) said 80 and name HB2)) Ooo peak 1942 waspik said 80 and name HBs)) said 80 and name HBs))	eald on and hamma haz /) 1 800 peak 19502 weight 0 eeld 76 and name HR!) 2.000 peak 19522 weight 0	### A and name [BP] ### A and name [BP] ### A do peak 19552 weight #### A do peak 19552 weight #### A do peak 19553 weight ##### A do peak 1955	engin 250 and read in and mame new 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	eald 76 and name HA)) eald 80 and name HG1)) eald 80 and name HG1)) celd 99 and name HBt) celd 34 and name HZ)) 2.300 peak 19642 weight	10 2014 1917 and resard 99 and name HBt) 10 100 1 100 peak 1965 each (1967) and resard 31 and name HBT) 1100 1 100 peak 1965 each (1967) and resard 99 and name HBt) 1100 1 100 peak 1967 each 1100 peak 1967 each 1100 peak 1967 each	ceaid 99 and name HBt) 2 400 peak 19692 weight 0 7 eaid 30 and name HBt) ceaid 100 and name HBt)	aeld 99 and name HBF) esid 103 and name HG1)) 2 200 peak 19752 weight esid 7 and name HBF)	1,500 3 100 2 000 peak 19772 weight 0 [19792] eegat "BYD" and read 99 and name HA]) eegat "BYD" and read 34 and name HA]) 2 600 1 700 1 700 peak 19792 weight 0 [19802] second "BYD" and read 99 and dame HL])	1 600 peak 19802 weight 1 600 peak 19802 weight eaid 99 and name HA)) 2 300 peak 19812 weight	weigld "EED" and result 99 and name HDA) 2.800 2.000 2.000 peak 19822 weight (1982) ## 1982 weight eegid "EED" and result 99 and name HA)) eegid "EED" and result 99 and name HA)) eegid "EED" and result 90 peak 19822 weight	(1.982) eegid "BED" and resid 99 and name HA)) eegid "BED" and resid 103 and name HBZ)) 2 500 1 700 peak 19842 weight (1.982) eegid "BED" and resid 110 not name HBZ)) eegid "BED" and resid 110 and name HA))	1.600 3.200 1.900 peak 19882 waight 0 (1992) 9.600 1.900 peak 1980 waight 1.900 2.900 2.100 peak 19902 waight (19912)
2 250 2 199	2.444	5 444 7 893	s 428 7 417	2 735		8 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2.032	1 832	2 841. 3 581.	3.427	4 582	7.803 2 662
2 636 ppm2 2 635 ppm2	2 636 ppm2 2 647 ppm2	2 842 ppm2 5 001 ppm2	5 001 ppm2 5 547 ppm2	5 544 ppm2	smyg sec. 2		1.697 ppm2	1 697 ppm2 2 289 ppm2	2 289 ppm2 2 289 ppm2	2 289 ppm2 2 289 ppm2	2 289 ppm2	2 289 ppm2 2 092 ppm3
0 100008+01 volume 0 177646+01 ppml 0 100008+01 volume 0 358808+03 ppml	E+01 volume 0 29255E+02 ppml E+01 volume 0 60763E+02 ppml	E+01 volume 0.28694E+02 ppml E+01 volume 0 98899E+02 ppml	E+01 volume 0.15610E+03 ppml E+01 volume 0.58226+02 ppml	Volume 0 12258E+03	8401 Volume 0 423198-02 ppml	volume 0.35927E+02	E+01 VOLUME O 54962k+01 ppm. E+01 VOLUME O 60793E+02 ppml	6+01 volume 0 120135+03 ppml 6+01 volume 0.68019E+02 ppml	E+01 volume 0 48169E+02 ppml	0 10000E+01 volume 0 30400E+03 ppm1 0 10000E+01 volume 0 14651E+02 ppm1	E+01 volume 0 87183E+02 ppml	0 10000E+01 volume 0 44233E+02 ppml
)) ight 1)) 1))	and make HB1) peak 1893 weight to 10000E+01 and name HB2) and name HB2) peak 18952 weight to 10000E+01	reand 57 and name HR3)) reand 36 and name HR3)) 1 800 peak 18992 weight 0.10000E+0) reand 31 and name HZ)) 2 400 peak 18072 weight 0 10000E+01	and name (A)) and name (A)) peak 1992 weight 0 10000E+01 and name (R)) and name (R)) peak 19172 weight 0 10000E+01	and name HA)) and name HG1)) peak 19182 weight and name HA)) and name HA))	and name HA))	and name HBt] and name HG1 }) bat 19212 Weight and name HBt } and name HD11	and name and name and name and name and name	and name and name and name	and name HB1)) peak 13952 weight 0 10000B+01 and name HB1) and name HB1)) peak 19362 weight 0.10000E+01	and name HBł) and name HOl)) ak 19372 weight and name HBł) and name HB2)) ak 19382 weight	and name HBt) and name HA)) peak 1932 weight 0 10000E+01 and name HBt)	and name HB#) and name HB#) and name HB#) peak 19482 weight
(wegid 'BrD ' and resid 16 and name HG ASS [1890] 100 peak 18832 we 1400 peak 18832 we 1400 peak 18832 we 1400 peak 18832 we 1400 peak 18902 we	Begin and resid 14 3 700 3 400 1 800 {18952} segid "BrO" and resid 57 segid "BrO" and resid 37 3 200 2 600 2 300 {18992}	segid "BKD" and resid 57 segid "BrD" and resid 36 3 700 3.400 1 800 (19072) seegid "BrD" and resid 31 seegid "BrD" and resid 31 seegid "BrD" and resid 31 3.000 2.400 2.400	esid 30 2.000 esid 43 esid 85	2 100	esid 43 esid 44 esid 43 esid 38	(19212) segid "BrD" and resid 43 segid "BrD" and resid 42 3 600	esid 43	3322) 3312) 3312) 3414 "BLD" and resid 31 3414 "BLD" and resid 25 3500 3500 3500 3500 3500 3500 3500 35	eegid 'BrD' and resid 35 and hame HBL)) 3.400 2 900 2 100 pack 13952 weight [13362] eegid 'BrD' and resid 31 and hame HBL) 2.400 1.400 pack 19362 weight [1,902-3]	Begld "BrD " and reeid 31 (eeg1d "BrD " and reeid 35 2 500 1 600 1 600 1 (19382) eeg1d "BrD " and reeid 31 (eeg1d "BrD " and reeid 34 200 1 300	(segid "BrD " and resid 31 (segid "BrD " and resid 28 3 100 2.400 2 400 pc ASSI (1942) (segid "BrD" and resid 31 (segid "BrD" and resid 31 (segid "BrD" and resid 31	resid 76 resid 76 resid 79

5.111	7 026		7 920	4 980	1 710	1111	7 905	2 784	2 360	3 028	2 597	7 515	7 026		1 327		929 0	2 157	3 907	4 94		4.297	4 753	4 859	7 706
4.656 ppm2	1 648 ppm2		1 651 ppm2	1 649 ppm2	3.175 ppm2	2.633 ppm2	638	1 895 ppm2		1 895 ppm2	1 899 ppm2	1 795 ppm2	1 795 ppm2		2 979 ppm2		2.979 ppm2	1 795 ppm2	1 796 ppm2	Cancer 795 F	:	1 796 ppm2	0 760 ppm2	1 056 ppm2	1 056 ppm2
volume 0.17530E+03 ppm1	volume 0 13726E+03 ppml		volume 0.69885E+02 ppm1	volume 0.55839E+02 ppm1	volume 0.12367E+03 ppm1	volume 0.11189E+03 ppm1	0 974558+02	volume 0 11102E+03 ppm1	0 55703E+02	volume 0 10489E+04 ppm1	volume 0 47828E+02 ppml	volume 0 35912E+03 ppm1	volume 0 43989E+02 ppm1		volume 0 35593E+02 ppml		volume 0 11302E+02 ppm1	volume 0 436748+02 ppm1	volume 0 11856E+02 ppm1		1	volume 0 48930E+02 ppml	volume 0.128125+03 ppml	volume 0.64039E+02 ppml	volume 0 52778E+02 ppml
0.10000E+01 vo	0 10000E+01 vo		0 10000E+01 vo	0 10000E+01 vo	0 10000E+01 vo	0 10000E+01 vo		0 10000E+01 vo	0 10000E+01 vo	0 10000E+01 vo	0 10000E+01 vo	0.10000E+01 vo	0 10000E+01 vo		0 10000E+01 vo		0 10000E+01 vo	0 10000E+01 vo	0 10000E+01 vo.	(c) 107300001 0		0 100000000000	0 10000E+01 vo	0 10000E+01 vo	0 10000E+01 vo
2.000 peak 20712	segid "BrD " and resid 25 and name HG2t) segid "BrD " and resid 82 and name HEt) 2 900 2 100 2 100 peak 20802 weight	d "BrD " and resid 25 and name HG2%)	ASSI [20812] { esgid "BLD" and resid 58 and hame HG2t} segid "BLD" and resid 68 and hame HBt 3.200 2 500 2 300 peak 20912 weight	ist (2082) (segid brD' and resid 25 and name HG2%) ((segid BrD' and resid 31 and name HA)) (3 400, 2 900 2 100 peak 20852 weight	(20862) segid "BrD" and resid 62 and name HD1)) segid "BrD" and resid 63 and name HB2)) 2 900 2 100 peak 20862 weight	(20672) segid "bib" and resid 62 and name HD2)) segid "bib" and resid 62 and name HB2)) 3 000 2.200 2 200 peak 20872 weight	NYD " and resid 62 and name NYD " and resid 68 and name 2 400 peak 20992	esid 83 and name esid 87 and name 2.200 peak 21082	resid 83 and name resid 80 and name 2 100 peak 21142	esid 83 and name esid 87 and name 1 100 peak 21192	arD " and arD " and 2 900	(21222) segad "BLD" and resid 25 and name HGI*) segad "BrD" and resid 106 and name HD* 2 500 2.000 peak 21292 weight	esid 25 and name esid 82 and name 2.000 peak 21322	esid 25 and name	241 and reald 25 and name HB)) d "BED " and resid 102 and name HD1*) 0 3.200 1 900 peak 21392 weight	"BrD " and resid 25 "BrD " and resid 10 }	({ segid "BrD " and resid 25 and name HB }) (segid "BrD " and resid 76 and name HD2%) 4.400 4.400 1 100 peak 21402 weight	ASSI (21422) { segid "BrD " and resid 25 and name HGI4) { (segid "BrD " and resid 102 and name HG)) 3.500 peak 21422 weight	SSI (21452) (segid "BrD" and resid 25 and name HGI%) (segid "BrD" and resid 106 and name HBI !) 4 300	"BrD" and regid 25 and name "BrD" and regid 21 and name	NYD " and resid 25 and name NYD " and resid 102 and name	2 100 peak 21472 resid 81 and name	2.100 2 100 peak 21562	(segid "BrD " and resid 38 and name HG1%) ((segid "BrD " and resid 37 and name HA)) 1 300 2.700 2 200 peak 21582 weight	(21672) segid BrD and resid 81 and name HG1#) segid "BrD" and resid 34 and name HD1) 3 400
	(segid (segid 2 900	OR (20802 (8eg) (8eg)	ASSI (208 (9691) (9691) 3.20	ASSI (2085; (segid (segid 3 400	ASSI (208 (ASSI {20872 ((segld ((segld 3 000	ASSI (20992) ({ segid "E (segid "E 3 100	ASSI {21082} (segid "E ({ segid "E	ASSI (211) ((segu ((segu 3 40)	ASSI (21192 (#egid (#egid (#egid 2.100	ASSI (212) (eegin (segun 3 40	ASSI {21292} { segid "E { segid "E 2 500	ASSI (213) (Begin (Begin 3 50	OR {21322 (segre () segre	ASSA (A1394 (segad 3 600 3 600	OK (21392 (segre (segre ASSI (214)	(segid (segid 4.400	ASSI (21422 Regid (Regid 3.500	ASSI {21452} (segid "E (segid "E 4 300	ASSI (21462 (segid ((segid	ASSI (21472) (segid "F (segid "F	3 400 ASSI (21562) (secid "	((segid "I 2 900 ASSI {21582}	(segu-	ASSI (216 (segr. (segr. 3 40
	4.419	4.663	1.313	2 442	2 059	0 408	1 319	1 319	1 327	1 224	2 619	2 507	2 214	2 149	\$06 O	2 271	;	4 143	4 308	5.062	2.019	2 296	2.466	:	4 585
	4 903 ppm2 4.419	4 903 ppm2 4.663	4.899 ppm2 1.313	1.991 ppm2 2 442	1 994 ppm2 2 059	1.993 ppm2 0 408	1 993 ppm2 1 319	4 409 ppm2 1 319				1 747 ppm2 2 507	1 747 ppm2 2 214	1 747 ppm2 2 149	1.747 ppm2 0 904			ppm2	4.656 ppm2 4 308	1 845 ppm2 5.062	1 844 ppm2 2.019	1 844 ppm2 2 296	1 845 ppm2 2.466		2 832 ppm2 4 585
	0 44605E+02 ppml 4 903 ppm2 4	0 84488E+02 prml 4 903 ppm2	0 18572E+02 ppml 4.899 ppm2	ppm2 2	994 ppm2 2	0.14101E+02 ppm1 1.993 ppm2 0	0 472596+03 ppml 1 993 ppm2 1	409 ppm2 1	0 76060E+02 ppml 4 854 ppm2 1	ppm2 1	0 27619E+03 ppml 1 747 ppm2 2	0 10098E+03 ppml 1 747 ppm2 2	0 461346+02 ppml 1 747 ppm2 2	0 25743E+03 ppml 1 747 ppm2 2	0 84610E+01 ppml 1.747 ppm2 0	ppm2 2		0 42717E+02 ppml 4.656 ppm2 4	0 13674E+03 ppml 4.656 ppm2 4	0 513878+02 ppml 1 845 ppm2	844 ppm2	844 ppm2 2	845 ppm2		0 44748E+03 ppml 2 832 ppm2 4
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	weight 0 10000E+01 Yolume 0 44605E+02 ppml 4 903 ppm2 4	HBA)) Weight 0 10000E+01 Volume 0 64488E+02 prml 4 903 ppm2	HA)) HD1v) Weight 0 10000E+01 volume 0 18572E+02 ppml 4.899 ppm2	HHB)) HB1)) weight 0 10000E+01 volume 0 60405E+02 ppml 1.991 ppm2 2	name HBV) 00032 weight 0 10000E/01 Volume 0 86636E/03 ppml 1 994 ppm2 2	HIRK) HIRK) Weight 0 10000E+01 volume 0.14101E+02 ppm1 1.993 ppm2 0	HB4 } HD14; weight 0 10000E+01 volume 0 47259E+03 ppml 1 993 ppm2 1	and hamme HA)) and hamme BD14) sak 20072 weight 0 10000E+01 volume 0 13630E+03 ppm1 4 409 ppm2 1	and name HD11) and name HD11) peak 20192 weight 0 10000E+01 Volume 0 76060E+02 ppm1 4 854 ppm2 1	and name #014) and name #014) peak 20212 weight 0 100008+01 volume 0 887178+01 ppm1 4 542 ppm2 1	and name HG21) and name HG21) peak 20242 weight 0 10000E+01 volume 0 27619E+03 ppml 1 747 ppm2 2	HROZE) 1 Weight 0 10000E+01 volume 0 10098E+01 ppml 1 747 ppm2 2	and name HO24) and name HB1,) eak 20272 weight 0 10000E+01 volume 0 46134E-02 ppml 1 747 ppm2 2	and name HE2)) and name HE2)) esk 20252 weight 0 10000E+01 volume 0 25743E+03 ppml 1 747 ppm2 2	and name HG2+) and name HB2 1) pask 2000 ansight 0 100006+01 volume 0 84610E+01 ppml 1.747 ppml 0	and hame HB)) and name HB)) pask 2031 Weight 0 10000E+01 volume 0.67487E+02 ppml 4 903 ppm2 2	and name HD)) and name HD2))	Ppeak 2032 weight 0 100000E+01 volume 0 4271/E-02 ppm1 4.656 ppm2 4 and name DA)) and name DA))	peak 20382 weight 0.10000E+01 volume 0 13674E+03 ppm1 4.656 ppm2 4 and name HG24) and name HG24) and name HG24)	peak 20532 weight 0 100008+01 volume 0 513878+02 ppml 1 845 ppm2 and name HG24)	Pack 1000 May 2010 100008+01 volume 0 28154E+03 ppml 1 844 ppm2 and name HO28)	and name HO1)) peak 20562 weight 0 100008+01 volume 0.135965+03 ppm1 1 844 ppm2 2	and name HG2\$) and name HB2.1 pack 20572 weight 0.10000E+01 volume 0.75085E+02 ppml 1.845 ppm2	and name (id2.)) and name (i)))	Epaks 20593 weight 0 1000008+01 volume 0 44748k-03 ppm1 2 832 ppm2 4 and name 1A 1)
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and name HG2%) and name HB2)) peak 22382 weight 0	resid 69 and name Hd2%) resid 63 and name HD1%) 1.400 peak 22452 weight 0	[24402] and resid 49 and name HG2t) segid "BrD" and resid 50 and name HG12)) 4.000 4.000 1 500 peak 22482 weight 0.100	esid 49 and name HG2t) esid 87 and name HA)) 0 600 peak 22492 weight	resid 49 and name HG1%) resid 50 and name HG12)) 0 700 peak 22552 weight 0	BrD " and reeld 57 and name HG2)) BrD " and reeld 36 and name HA)) 3 100 2 000 peak 22592 weight	resid 42 and name HA)) resid 43 and name HB*) 1 200 peak 22612 weight 0	irD " and resid 42 and name HA)) irD " and resid 44 and name HD1)) 4 200 1 300 peak 23632 weight 0	SYD " and resid 42 and name HA)) SYD " and resid 43 and name HA)) 4 000 1.500 peak 22642 weight	esid 117 and name HA }) esid 116 and name HA }) 2.300 peak 22682 weight 0	esid 117 and name HA)) esid 116 and name HD1%)	esid 117 and name HA }}	eald 7 and name HB1)) eald 8 and name HD2)) 2 000 peak 22732 weight 0	seld 37 and name HA)) seld 38 and name HA)) 1.600 peak 22742 weight	BrD * and resid 37 and name HA)) BrD * and resid 38 and name HB)) 5 500 0.000 peak 22752 weight 0	resid 59 and name HB2 }) resid 56 and name HD24) 2 200 peak 22852 weight	rD " and resid 8 and name HD2)) rD " and resid 8 and name HA)) 2 700 2 200 peak 22882 weight 0	arD " and resid 8 and name HD1)) BrD " and resid 8 and name HA)) 2 000 2 000 peak 22892 weight 0	SrD " and resid 37 and name HD1)) BrD " and resid 37 and name HA)) 2 200 2.200 peak 22932 weight 0	resid 44 and name HD2)) resid 42 and name HA })		resid 11 and hame HD1)) resid 11 and name HB1)) 1 600 beak 22992 weight	esid 8 and name HD1)) resid 8 and name HB1)) 2.200 peak 23012 weight 0	and name HD1)) and name HG1)) peak 23022 weight 0
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resid 18 and name HG2%) resid 41 and name HA)) 0 600 peak 21702 weight	and name HG2%) and name HD2%) beak 21732 weicht O	2) "BrD " and reeld 81 and name HG2*) "BrD " and reeld 802 and name HD1*) "BrD " and reeld 102 and name HD1*) 3 800 1 600 neak 21742 wearht	BrD " and resid 81 and name HG2%) BrD " and resid 102 and name HD2%)	<pre>xrD " and resid 61 and name HG2%) xrD " and resid 84 and name HB2)) 2 200</pre>	NED " and resid 81 and name HB }) NED " and resid 78 and name HD2%) 2 600 2 300 peak 21772 weight	1) 1) 1) 1) 1) 1) 1) 1) 1) 2) 2	resid 81 and name	resid 81 and hame HA)) resid 80 and hame HB1)) 1 900 peak 21812 weight	resid 49 and name HA)) resid 50 and name HD1%) 1 400 peak 21902 weight	IND " and resid 50 and name HDI%) IND " and resid 88 and name HB1)) 1 400 1 400 peak 21952 weight	esid 50 and name HD1%) esid 46 and name HA)) 1 400 peak 21972 weight 0	rD " and reald 50 and name HD1%) rD " and reald 86 and name HD%) 2 400 2 400 peak 22022 weight 0	esid 50 and name HB)) esid 51 and name HB1)} 0 700 peak 22042 weight	rentd 50 and name	esid 50 and name HA }} resid 49 and name HG2*} 1 600 peak 22132 weight 0	resid 50 and name HA)) resid 49 and name HGI*) 1 700 peak 22142 weight 0	resid 50 and name HG2%) resid 51 and name HB1)) 1 500 peak 22212 weight	cesid 84 and name HA)) esid 81 and name HG2*) 1 400 peak 22222 weight o		negid "BrD" and resid 84 and name HA)) segid "BrD" and resid 88 and name HBI)) segid "BrD" and resid 88 and name HBI)) \$100 2 400 2 400 peak 22242 weight 0.10000B.	resid 69 and name HG1*) resid 66 and name HA)) 2 000 peak 22322 weight 0	esid 69 and name HG1%) esid 68 and name HA)) 0 500 peak 22332 weight	IED " and reeld 69 and name HG2%) IND " and reeld 66 and name HB1)} 4 000 1 500 peak 22372 weight

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and name HB2)) and name HD2k) peak 23732 weight	and name HB2)) and name HB1%	and name peak 23762	and name and name peak 23802	and name HD2%) and name HE%) peak 23842 weight	and name HA)) and name HB)) peak 23862 weight	and name HB1)) and name HB2*) peak 23922 weight	and name and name peak 23972	and name HB2)) and name HDt) peak 23982 weight	send 18 and name HG)) send 115 and name HD1%) 1 000 peak 24072 weight	and name HD2*) and name HA)) peak 24032 weight	and name HD1%) and name HB)) peak 24202 weight	and name HD1%) and name HB1 }) peak 24232 weight	and name	peak 24202 Weight and name HDI%) and name HA))	peak 24272 and name	and name peak 24302	and name HG)) and name HB2)) beak 24452 weight	and name	peak 24462 and name	peak 24482 weight	and name peak 24512	and name HD1%) and name HD%) peak 24542 weight	and name	peak 24682 and name	and name HEI)) peak 24702 weight and name HGI)) and name HEY)
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and name HD1)) and name HB2)) peak 23062 weight	and name HD1 }) and name HG1)} peak 23082 weight	and name HD2)) and name HG1)) peak 23092 weight	and name HD2)) and name HG2)) peak 23102 weight	and name HD1 }) and name HG1 }) beak 23112 Weight	and name HD2)) and name HB1)) beak 23122 welcht	and name HG2)) and name HA)) sak 23202 Weight	and name HG1)) and name HG1%) ak 23242 weight	and name HG1)) and name HD2%) tak 23272 weight	and name HG1 }} and name HD1%)	and name HG1)) and name HA)) peak 23292 weight	and name HD1 }) and name HD1% peak 23372 weight	and name and name	and name HA)) and name HE1)) peak 23402 weight	and name HB2)) and name HA)) peak 23422 weight		peak 23472 weight and name HB2))	and name HA)) peak 23572 weight	and name HA)) and name HA)) peak 23592 weight	and name HG1)) and name HA)) beak 23602 weight	and name HB1))	weight	HA)) weight	1 resid 13 and name HB1)) 1 resid 12 and name HB2)) 2 100 peak 23652 weight o	A))	HA)) HG2%) Weight
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ASSI (23062) ((segid "I ((segid "I 3 200	{ segid "BrD " and (segid "BrD " and (segid "BrD " and 2 600 1 700 ASSI [23092]	((segid "[() segid "[2 300	(segid "E	ASSI (23112) ((segid "E ((segid "E 2 600	ASSI {23122} ((segid "B ((segid "B 2 700	ASSI {23202} ((segid "B ((segid "B 3 200	ASSI {23242} ((segid "E (segid "E 3 200	ASSI (23272) ((segid "E (segid "E 3 500	OR {23272} ({ segad "B (segid "B	(segid "BrD " and (segid "BrD " and (segid "BrD " and (600 4 600	(segid "BrD " and (segid "BrD " and (segid "BrD " and) 3 400	(segid "[((segid "B ((segid "B 3 500	((segad "E	ASSI {23472} ((segid "B ((segid "B	1 900 ASSI {23572} ((segid "B	((segid "B 3 600 ASSI {23592}	({ segid "BrD " and ((segid "BrD " and 4 600 4 600	ASSI {23602} ((eegid "BrD " and ((eegid "BrD " and 3 900 3 800	ASSI (23632) ((8egid "B	2 700 ASSI (23642)	((aegid "B 3 200 ASSI (23652)	((segid "BrD " and ((segid "BrD " and 2 900 2.100	ASSI (23672) ((segid "B (segid "B	ASSI (23712) ((segid "B (segid "B 2 400

5 . 444	977 T	4 933	4 533	2.206	2 206	7 893	677 7	1 778	4 532	933	9			3 012	2 157	02.6	1 410	9.676	4 511	7 789	7 638	7 529	2 182
4.804 ppm2	4 804 ppm2	4.013 ppmz	4 015 ppm2	3 620 ppm2	3 916 ppm2	3 670 ppm2	3 620 ppm2	3 917 ppm2	1 551 ppm2	1 549 DDM2			66.6							1 254 Ppm.z			
66772E+02 ppm1	30316E+02 ppm1	12678E+03 ppm1	0,62906E+02 ppm1	29534E+03 ppm1	15410E+03 ppm1	121218+03 ppm1	45042E+03 ppml	323235+03 ppm1	41073E+02 ppml	106585+03 ppm1		5 6				E+05	g :	5 5	9 5	0 14360E+02 ppm.	: 6	3 5	5 6
10060E+01 volume 0 6	0.10000E+01 Volume 0 3	0.10000E+01 Volume 0 1	10000E+01 volume 0.6	10000E+01 volume 0 2	100008+01 volume 0 1	0.10000E+01 volume 0 3	10000E+01 volume 0 4	0 10000E+01 volume 0 ;	0.10000E+01 volume 0 4	Opposition volume o		volume	volume 0	volume	volume	volume	volume	volume	volume 0	0 10000E+01 volume 0	emilos emilos	o amnina o	volume o
and name HA))	rD " and resid 98 and name HA)) rD " and resid 34 and name HE't) 3.400 1.800 peak 25412 weight	and name HB1)) and name HB1)) ak 25422 weight	eeld 98 and name HBl)) eeld 30 and name HB2)) 2.200 peak 25442 weight 0	ID and reald 85 and name HB2) ID and reald 99 and name HB\$) 1 600 1 600 peak 25452 weight 0	rD * and reald 85 and hame HB1) rD * and reald 99 and name HB4) 2 000 2.000 peak 25462 weight 0	rD " and resid 98 and name HB2)) rD " and resid 34 and name HZ)) 2 100 2 100 peak 25502 weight	said 85 and name HB2)) said 34 and name HEt) 1 400 peak 25512 weight 0	resid 85 and name HB1)} resid 34 and name HE*) 1 600 peak 25522 weight	send 101 and name HD1*) send 30 and name HB2)) 2 000 peak 25562 weight	sold 101 and name HD1%) sold 30 and name HB1))	resid 18 and name HD24)	1 900 peak 25582 weight 0. 881d 21 and name HG24) 881d 24 and name HG2))	1 900 peak 25642 weight sid 21 and name HG2%) sid 109 and name HE2))	1 500 peak 25652 weight sid 21 and name HG24) sid 109 and name HB2 }}	1 800 peak 25722 weight 0 send 101 and name HDI*)	2.400 peak 25752 weight 0 set 110 and name HB))	1 300 peak 25812 weight resid 110 and name HG11))	1 500 peak 25822 weight esid 110 and name HD1%) esid 75 and name HA }}	2 400 2 400 peak 25842 weight 3xD " and resid 110 and name HG2%) 3rD " and resid 114 and name HA1))	1 300 peak 25852 weight resid 110 and name HG2%) resid 107 and name HD4)	resid 110 and name HE%)	1 but I but peak sector weight of 1 but in and name HDI*) "BrD " and reaid 110 and name HD!*) "BrD" and reaid 10 and name HD*)	1 800 peak * 2012 weight u) "Exp" and reald 110 and name HD14) "Exp" and reald 115 and name HB1)) 1.300 peak 26062 weight o
7 (megic 3 300	ASS { (ASS { {	ASSA ()	ISSK	ASSI))	ISSK	ASS (288 -	ASS {	ASSI (25572) (9egid "(19egid ")	ASS: (ASS { {	25.4))	ASS. ()	2 70 ASI (257 638 (eegt (eegt (eegt (eegt (3 10 ASSI (258 (1 ergul (ergul	ASS1	4.000 ASSI (2581 (2591) 948 (6e91d "B. (6e91d "B.	3 100 ASSI [2282] { (88914 "1) (86914 "1)	4.200 ASSI (26952 (Begad) (Begad)	3.20	311 (26)	ASSI ((((
.895 ppm2 7.48	191 ppm2 7 469	: 191 ppm2 1 654	124 ppm2 1 888	3.068 ppm2 1 888	: 486 ppm2 7 519	1.648 ppm2 7 511	1 648 ppm2 1 746	336 ppm2 1 746	338 ppm2 1 322		1 648 ppm2 4 647	336 ppm2 1.498	1.205 ppm2 1 312	1 205 ppm2 0 902	1 599 ppm2 7 6	1 599 ppm2 6 9º	1 599 ppm2 5 444	4 261 ppm2 4 9	4 261 ppm2 3 4	2 536 ppm2 4 5	2 536 ppm2 4 9	2 536 ppm2 1 3	4 804 ppm2 1 3
0.10000E+01 volume 0.57590E+02 ppml 1	0.10000E+01 volume 0 37891E+03 ppm1 2	0 100008+01 volume 0 74438E+03 ppm1 2	0 10000E+01 volume 0.24553E+03 ppm1 3	0.10000E+01 volume 0 29588E+03 ppml 3	0 10000E+01 volume 0 42303E+03 ppml 2	0 10000E+01 volume 0 12393E+02 ppm1 1	0 10000E+01 volume 0 15768E+03 ppml	0 10000E+01 volume 0.65857E+03 ppml 2	0.10000E+01 volume 0 25380E+02 ppml 2		0.10000E+01 volume 0 61127E+02 ppml	0 10000E+01 volume 0 61439E+03 ppml 2	0 10000E+01 volume 0 17249E+03 ppm1	0 10000E+01 volume 0 54202E+02 ppm1	, 0 10000E+01 volume 0 17880E+03 ppm1	0 10000E+01 volume 0 42795E+02 ppm1	0 10000E+01 volume 0 43138E+02 ppml	0 10000E+01 volume 0 52950E+02 ppm1	0 10000E+01 volume 0 82741E+02 ppm1	0 10000E+01 volume 0 74692E+02 peml	0 10000E+01 volume 0.14018E+03 ppm1	0 10000E+01 volume 0 47210E+02 ppm1	0 10000E+01 volume 0 46966E+01 ppml
3.300 2.700 2.200 peak 24782 weight 0	cend 19 and name HD1)) cend 15 and name HE%) 1 400 peak 24832 weight	esid 19 and name HD1)) esid 63 and name HD1%) 2 300 peak 24842 weight	esid 23 and name HGl)) esid 19 and name HGl)) 1 700 peak 24882 weight	esid 23 and name HG2)) esid 19 and name HG1)) 1 600 peak 24892 weight		HG12)) HD%) weight	(1 segad "BFD" and resid 21 and name HG12) (segad "BFD" and resid 17 and name HG24) 2 800 2 000 peak 25072 weight Appendix 2 2 000 peak 25072 weight	HG11)) HG2%) weight	esid 21 and name HG11)) esid 102 and name HD2*) 1 700 peak 25092 weight	send 21. and name	esid 21 And name HG12)) esid 20 and name HB1)) 2 200 peak 25102 weight	1 200 peak 25132 weight		rD " and resid 21 and name HD14) rD " and resid 18 and name HB2)) 2 900 2 100 peak 25202 weight	resid 21 and name HG2%) resid 106 and name HE% } 2 000 peak 25272 weight	resid 21 and name HG2*) resid 82 and name HZ)) 2 000 peak 25302 weight	resid 101 and name HG2%) resid 30 and name HA)) 2 000 peak 25312 weight		D " and resid 101 and name HA)) D " and resid 100 and name HB1)) 2 400 2 400 peak 25333 weight	esid 101 and name HB)) resid 30 and name HB2)) 2 300 peak 25342 weight	нв)) нві)) weight	rD " and resid 101 and name HB)) irD " and resid 102 and name HD1V) 3 100 Z 000 peak 25362 weight	HA)) HD14) weight HA))

4.448	2 401	3 028	2.003	5 542	5 444	1 898	1 644	4 745	3 117	1 572		4 265	2 458	2 206	4 963	3.276	4 808	5 583	1 079	5 539	1 075	4 972
3 132 ppm2		1 892 ppm2	2 701 ppm2	2 930 ppm2	2 733 ppm2	2 815 ppm2	2 684 ppm2	5.642 ppm2	3 669 ppm2	3 421 ppm2		3 423 ppm2	3 423 ppm2	3 423 ppm2	3 962 ppm2	3 913 ppm2	3 912 ppm2	3 902 ppm2	Z 339 ppm2	2 979 ppm2	2 979 ppm2	4 163 ppm2
0.33522E+02 ppm1		22393£+03 ppml	4296E+02 ppml	19758E+02 ppm1	36066E+01 ppm1	0.56268E+02 ppml	11517E+03 ppm1	.31951E+02 ppm1	59751E+02 ppm1	18249E+02 ppm1		18330E+02 ppml	0.20958E+03 ppm1	0.49005E+02 ppm1	85246E+02 ppml	16096E+02 ppm1	47687E+02 ppm1	23078E+02 ppml	49600E+02 ppm1	66937E+02 ppm1	24126E+02 ppm1	46123E+02 ppml
* 10000E+01 volume 0.3	volume	10000E+01 volume 0 2	10000E+01 volume 0.4	10000E+01 volume 0 1	10000E+01 volume 0 3	0 10000E+01 volume 0.5	10000E+01 volume 0 1	10000E+01 volume 0.3	10000E+01 volume 0 5	10000E+01 volume 0 1		0.10000E+01 volume 0 1	10000E+01 volume 0.2	0 10000E+01 volume 0.4	10000E+01 volume 0 6	10000E+01 volume 0 1	10000E+01 volume 0 4	100008+01 volume 0 2	10000E+01 volume 0	.10000E+01 volume 0 (10000E+01 volume 0 3	0 10000E+01 volume 0 4
and name HA)) and name HG1)) and name HA)) peak 26702 weight 0 1	HG1)) HD1))	HD1)) HG1)) Weight 0	HG1)) HG2)) Weight 0	HB1)) HA)) weight 0	HG1)) HA)) weight 0	12 and name HG2 }) 11 and name HG2 }) 1 peak 26962 weight 0 1	HB2)) HG2*)	HA)) HB2)) Weight 0	181)) 182)) veight 0	HB2)) HD1%) weight 0	and name HB2)) and name HG2%)	said 100 and name H82 }) said 101 and name HA }) 1.500 peak 27092 weight 0.1	and name HB2)) and name HG11)) eak 27102 weight 0	and name HB2)) and name HB%) eak 27112 weight	and name HD1)) and name HA)) peak 27142 weight 0	and name HD2)) and name HB2)) peak 27172 weight 0	and name HD2)) and name HB)) peak 27192 weight 0	and name HD2)) and name HA)) peak 27202 weight 0	and name HG)) and name HG1%) peak 27322 weight 0	and name HB1)) and name HA }) peak 27342 weight 0.	and name HB1)) and name HG1*) peak 27362 weight 0	and name HA)) and name HA)) peak 27372 weight 0 and name HB1))
resid 93	reald 94	resid 86 resid 87 1 800	esid 36 esid 57 2 000	* and resid 37 " and resid 54 000 1 500	esid 37 esid 36 0 200	esid 11 esid 11 2 100	esid 61 esid 50 2.200	esid 89 esid 93 1 800	estd 89 estd 96 2.200	esid 10 esid 10 1 500	BrD " and resid 100 BrD " and resid 101		esid 10 1 800	{27112} segid "BrD " and resid 100 segid "BrD " and resid 99 3 400 2 900 2 100 pt	eeld 80 eeld 77 2 400	esid 80 esid 84 1 400	esid 83 2 100	segid "BrD" and reald 80 segid "BrD" and reald 52 3 900 3.800 1.600 [celd 56 2.100	and resid 55 and resid 34 .700 2 200	and resid 55 and resid 81 800 1 600	and resid 39 100 2 000 and xesid 55
({ megid "BrD ASSI {26702} ({ megid "BrD ({ megid "BrD 3.700	ASSI (26752) ((segid "B ((segid "E ((segid "E	ASSI {26872} ((segad *E ({ segad *E 2.700	ASSI (26902) ((segid "BrD (cegid "BrD 3 500 3	ASSI {26922} ((segid "E ((segid "E 4 000	ASSI {26952} ((segid "E ((segid "E 5 300	ASSI {26962} ((aegid "E ((aegid "E 3 400	ASSI {26972} ((segid "E (segid "E 3 000	ASSI {27022} ((segid "I ((segid "I 3 700	ASSI {27032} ({ megid "! ((megid "!	ASSI {27082} {{ seg1d "BrD " and r { seg1d "BrD " and r 4 000 4 000	({ segid "; (segid "; (segid ";	ASSI (27022) (1 8691d ") (2 8691d ") (3 8691d ")	ASSI (27102) ((segid " ((segid "	ASSI (27112) ((segid ") (segid ") 3 400	ASSI (27142) ((segid ") ((segid ") 3 100	ASSI (27172) ((segid ") ((segid ") 4 100)	Abbi (arital) ((segid ") (segid ") 3 400	ASSI (A 1202) ((segid ") ((segid ") () segid ")	ASSI (27322) (segid " (segid ") 400	(segid "BrD" (segid "BrD")	•	ASSI (27372) (1 eeg1d 'E (1 eeg1d 'E) 500 ASSI (27392) ((eeg1d 'E
																					-	·-
2.493	1 918	1 918	1 978	5 168	2 662	2.175	1 906	1 140	4 427	3 508	2.662	1 718	1 637	1 078	0 680	1 237	4 818	2 200	1.263	1.149	4.679	2 038
1 254 ppm2	1 254 ppmZ	1 154 ppm2	1 154 ppm2	1 401 ppm2	1 401 ppm2	1.401 ppm2	1 401 ppm2	1 401 ppm2	1 401 ppm2	1 401 ppm2	1.401 ppm2	1 401 ppm2	1 401 ppm2	1 399 ppm2	1 399 ppm2	1,399 ppm2	1 501 ppm2	2 432 ppm2	2 409 ppm2	2.409 ppm2	2 519 ppm2	3 127 ppm2
0 52641E+02 ppml	0 30456E+02 ppm1	0.58180E+02 ppm1	0.40630E+03 ppml	13762E+02 ppm1	19045E+02 ppm1	15845E+02 ppml	22212E+03 ppm1	15578E+03 ppm1	0 761948+02 ppml	0.79388E+02 ppml	0 54400E+02 ppm1	24061E+03 ppm1	93798E+03 ppm1	39159E+03 ppml	55118E+01 ppm1	13707E+04 ppm1	60749E+03 ppm1	0 110598+02 ppm1	0 35446E+02 ppm1	65125E+02 ppml	0 56609E+02 ppml	32972E+01 ppm1
0 10000E+01 volume 0	0 10000E+01 volume 0 :	0 100008+01 volume 0.5	0 10000E+01 volume 0.4	0 10000E+01 volume 0 13762E+02	0 10000E+01 volume a 79045E+02	0 10000E+01 volume 0 25845E+02 ppm1	0 10000E+01 volume 0 22212E+03	0 10000E+01 volume 0 45578E+03 ppm1	0 10000E+01 volume 0	0 10000E+01 volume 0.	0.10000E+01 volume 0	0 10000E+01 volume 0 24061E+03 ppm1	0 10000E+01 volume 0 93798E+03	0 10000E+01 volume 0 39159E+03	0 10000E+01 volume 0.55118E+01 ppml	0 10000E+01 volume 0 13707E+04	0 10000E+01 volume 0 60749E+03 ppml	0 10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0.65125E+02 ppml	0 lobooB+01 volume 0	0 10000E+01 volume 0 32972E+01 ppm3
	HG24) HG11)) Welght	HD11) HG11)) weight	HD1() HB() weight	81d 116 and name HG2%) 81d 117 and name HA)} 1 300 peak 26212 weight 0 1	HG2%) HB2 }} weight	116 116 and name HG21) 12d 115 and name HB1)) 1 700 peak 26242 Weight 0 1	HG2%) HG11)) weight	resid 116 and name HG24) resid 110 and name HD14) 2 100 peak 26262 weight 0 1	aid 116 and name HD1%) aid 107 and name HA)) 2 300 peak 26322 weight 0 1	resid 116 and name HD11) resid 75 and name HG1)) 2.300 peak 26372 weight 0 1	HD1%) HB2)) weight	resid 116 and name HD1%) resid 110 and name HG11)) 1.700 peak 26402 weight 0 1	HD1%) HG12)) weight	HD1%) HB2)) weight	D14) D24) e1ght	D14) G24) e1ght	HD24} HA)) weight	HB }} HB1 }}	HB)) HG2%) weight	HD1%) Welght	HG2)) HA)) weight	and name HG1)) and name HB1)) peak 26692 weight 0 : and name HG1))
55I (2692) (megyd "BrD" and resid 110 and name HG24) (seedyd "BrD" and resid 111 and name HB1) (seedyd "BrD" and resid 111 and name HB1) (seedyd "Arth") 2 900 2 100 pesk 26922 weight	D " and resid 110 ; D " and resid 116 ; 3 400 1 800 pea	terial [*2124] and resid 110 and name (segid "BrD " and resid 116 and name 13 300 2.700 2.200 peak 26132 SSR [26142]	6egid "BrD " and resid 110 a eegid "BrD " and resid 113 a 2 400 1.400 1.400 pea (2,6212)	(segid "BED" and resid 116 a (segid "BED" and resid 117 a 4 200 4.200 1 300 pea ser [26,223]		20.00	D and resid 116 and name D and resid 116 and name 1 800 1 800 peak 26252	D " and resid 116 4 D " and resid 110 4 2 400 2 100 pea		D " and resid lie : D " and resid 75 : 2 600 2.300 pes	D and resid 116 and name D and resid 79 and name 2 900 2 100 peak 26382	D " and resid 116 a D " and resid 110 a 1 700 1.700 pea	U " and resid 116 and name D " and resid 110 and name 1 100 1 100 peak 26412	D mand reeld 116 and name D mand reeld 78 and name 2 400 2 100 peak 26432	2 11	said 116 said 110 1 000 p		D " and resid 116 and name D " and resid 115 and name 4 400 1 100 peak 26522	D * and resid 116 and name D * and resid 110 and name 3.200 1 900 peak 26532	D " and resid 116 and name D " and resid 110 and name 2 700 2.200 peak 26542	D * and resid 103 and name: D * and resid 104 and name 2 700 2.200 peak 26682	eeld 94 eeld 93 0 100 pe
4SSI {26092} (segid "BrD ((segid "BrD 3 400	ASSI (26122) (segid "BrD " and) (segid "BrD " and) 3 700 3 400	(megid "BrD ((megid "BrD 3 300 ASSI {26142}	(segid "BrD (segid "BrD 2 400 2 400	(segid "BrD ((segid "BrD 4 200 Aggr (2622)	(segid "BrD " and (segid "BrD " and (3 200 2 600 ASSI (26242)	(eegid "BrD " and re ((eegid "BrD " and re 3 800 3 600	(segid "BrD " and r (segid "BrD " and r 2 700 1 800	(segid "BrD " and re (segid "BrD " and re 2 400 2 400	(Begid "BrD (Begid "BrD 3 200	(segad "BrD " and (segad "BrD " and (segad "BrD " and 3 200 2 600	(segid "BrD " and r ((segid "BrD " and z 3 400 2 900	ASSI {26402} (segid "BrD " and re ((segid "BrD " and re 2 600 1 700	\SSI {26412} (segid "Bri ((segid "Bri 2.100	ASSI {26432} (Begid "BrD " and re (Begid "BrD " and re 2 400 2 400	ASSI {26472} (segid "Bri (segid "Bri 4 900	ASSI {26482} (segid "Bri (segid "Bri 2.000	ASSI {26502} (segid "BrD " and re (segid "BrD " and re 2.300 1 300	ASSI (26522) ((segid "Bri ((segid "Bri 4 400	ASSI {26532} ({ segid "BrD " and re (segid "BrD " and re 3 600 3.200	ASSI {26542} ((segid "BxD " and r (segid "BxD " and r 3 300 2 700	ASSI (26682) ((segid "Bri ((segid "Bri 3 300	ASSI {26692} {(segid "Bri {(segid "Bri 5 400 OR {26692} }

	7 637	4 727	4 525	3 918	3 703	3.919	2 043	1 590	0 424	7 534	7 041		5 371	4 509	4 733	3 996	3 003	3 451	3.443	7 064	7 778	992 0	7 041
	0.662 ppm2	0 761 ppm2	0 761 ppm2	0.761 ppm2	0.662 ppm2	0 662 ppm2	0 760 ppm2	0 761 ppm2	0 760 ppm2	1 254 ppm2	1.253 ppm2		1 254 ppm2	1 254 ppm2	1 251 ppm2	1 254 ppm2	1 254 ppm2	2.684 ppm2	1 993 ppm2	1 993 ppm2	1 842 ppm2	1 842 ppm2	2 141 ppm2
	0 14234E+03 ppm1	0 43609E+02 ppm1	0.46405E+02 ppm1	0 77501E+01 ppml	0.14435E+03 ppm1	0 12278E+03 ppml	0 18524E+03 ppml	0.29008E+03 ppml	0 64808E+02 ppml	0 17777E+02 ppml	0 54803B+02 ppm1		0 41030E+02 ppm1	0.83493E+02 ppml	0,99805E+02 ppm1	0 27666B+02 ppml	0,41722E+02 ppm1	0 28628E+02 ppm1	0 202418+02 ppml	0 13708E+03 ppm1	0 70904E+02 ppm1	0 34445E+02 ppml	0 29286E+03 ppm1
•.	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0.10000E+01 volume
and name HD2*) and name HE*)	and name HD2%) 6 and name HE%) peak 28012 weight	and name HD1%) and name HA)) peak 28032 weight	and name HD1%) and name HA }) peak 28062 weight	and name and name	and name HD2%) 6 and name HB2)) peak 28122 weight	and name HD2%) 6 and name HB1)} peak 28132 weight	and name HD1%) and name HB)) peak 28192 weight	and name HD1%) and name HD2%) peak 28202 weight	and name HD1%) and name HD2%) peak 28232 weight	and name HD2%) and name HE%) peak 28262 weight	and name HD2%) and name HE%) peak 28272 weight	and name HD2%) and name HZ }}	and name HD2%) and name HA)} peak 26292 weight	and name HD2%) and name HA)) peak 28322 weight	and name HD2%) and name HA)) peak 28342 weight	and name HD2*) and name HA)) peak 28352 weight	and name HD2%) and name HB)) peak 28372 weight	and name H81)) and name HG1)) peak 28402 weight	and name HB2)) and name HG1)) peak 28412 weight	2 and name HEt) and name HEt) peak 28442 weight	/2 and name HB2)) and name HB4) peak 28472 weight	said 102 and name HB2)) said 81 and name HG2%) 1,900 peak 28502 weight	1 102 and name HG)) 4 82 and name HBt) 600 peak 28532 weight
BrD " and resid 78 BrD " and resid 82	esid 78 2 100	(28004) segid "BrD " and resid 78 segid "BrD " and resid 22 3 500 3.100 2 000 pc	es1d 78	esid 78 esid 10 0 800	BrD " and resid 78 BrD " and resid 10 2 100 2.100	esid 78 esid 10 2 100	esid 78 esid 81 1 800	[{28202} segid "BrD " and resid 78 segid "BrD " and resid 22 2 500 1 600 1 600 p	said 78 2 200	I (28262) segid "BrD" and resid 56 segid "BrD" and resid 74	esid 56 esid 82 2 100	esid 56	esid 56 2 000	esid 56 esid 26 2 400	rD " and resid 56 rD " and resid 22 2.200 2.200	rD * and resid 56 rD * and resid 78 3 600 1 700	irD " and resid 56 irD " and resid 25 3.100 2 000	3 600 1 700	BrD " and resid 35 BrD " and resid 35 4 000 1 500	3rD * and resid 10 3rD * and resid 62 2 100 2 100	3rD " and resid 10 3rD " and resid 34 2 600 2 300	arD " and re arD " and re 3 200	NYD " and results of the state
segid "	(megate ") (megate ") (megate ") (megate ")	ASSI (28032) (segid ") (segid ") (3 500	ASSI (28062) (segid " (segid ") 3.500	ASSI (28102) (segid "(segid " 4 700	ASSI (28122) (Regid " ((Regid "	ASSI (28132) (segid " ((segid " 2 900 ;	ASSI (28192) (8egid " ((segid "	ASSI {28202} (segid " (segid "	ASSI (28232) (negld " (negld " 3 300	ASSI (28262) (Begid " (Begid " 4 100	ASSI (28272) (segid " (segid " 3 400	OR {282/2} { segid "BrD" and z (segid "BrD" and z ASSI {28292}	(segid " (segid " 3 500 sect (7 28322)	(segat tack (segat tack (segat tack (segat tack)	ASSI (Z8342) (Begid " ((Begid "	ASSI (28352) (segid "B ((segid "B	ASSI (28372) (86914 "E (86914 "E 3 5001	(segud 1)	ooo) prises))	ASSI {28442} ({ segid "E (segid "E 2.900	(segid (segid (segid 3.200	ASSI (28502) ((segid "E (segid "E (segid "E	ASSI ((
5 442	1 091	1 788	3 003	4.809	7.529	4 990	7 529	5 143	4 362	2 106	2 004	1 652		7 ·	3 312	1 954	4 411	n (7 532	7 635	7 528	7 031
2 979 ppm2	1 547 ppm2	1 599 ppm2	1.599 ppm2	1 599 ppm2	1.599 gpm2	1 645 ppm2			1 549 ppm2	1 500 ppm2	4 900 ppm2	4 803 ppm2		4 B 4					7 254 ppmz	1.056 ppm2	0 760 ppm2	0.662 ppm2	0 662 ppm2
0 54954E+02 ppml	0 37353E+03 ppm1		0 54052E+02 ppm1		0 54070E+03 ppml	0 80681E+02 ppm1	624388+03	0 31070E+03 ppm1	0 86052E+02 ppml	0 17686E+03 ppml	0 10158E+04 ppml	0 11137E+03 ppm1		0.55069E+02 ppm1		0 31985E+02 ppml	0 17221B+02 ppm1	0 22274E+01 ppm1	0 30077E+03 ppm.	0 34865E+02 ppm1	0 24618E+03 ppm1	0 76393E+03 ppml	0 83417E+03 ppml
0.10000E+01 volume 0 54954E+02	0 10000E+01 volume	volume	volume	volume	volume	volume	volume			0 10000E+01 volume 0 17686E+03	0 10000E+01 volume 0 10156E+04 ppm1	0 10000K+01 volume		100008+01 volume			0.10000E+01 volume	0 10000E+01 volume 0 22274E+01 ppml	0 10000E+01 volume 0 30077E+03 ppm.	0 10000E+01 volume	0 10000E+01 volume 0 24618E+03 ppm1	0.10000E+01 volume	0 10000E+01 volume
and name HA)) peak 27392 weight 0	and name HG1%) and name HD1%) peak 27442 weight 0	HD24) HG14) We1ght	4D2%) 4B)) weight	and name HD2%) and name HA)) peak 27492 weight	and name HD2*) and name HE*) peak 27552 Weight	and name HD1%) and name HB1)) beak 27572 weight	and name HDI*) and name HE*)	and name HDI*) and name HA)) peak 27632 weight	and name HD1%) and name HS2)) beak 27662 weight	and name HD2%) and name HB%) ak 27692 weight	and name HA)) and name HB2)} ak 27712 weight	and name HA)) and name HGIV)	and name HB2))	peak 27772 weight and name HA)) and name HB1))	aak 27822 weight and name HB2)) and name HG11)	aak 27842 weight and name HB2)) and name HA))	peak 27872 weight and name HG)) and name HA))	peak 27862 weight and name HG)) and name H2))	peak 27892 weight and name HG)) and name HE*)	and name HB2 }) and name HD% } peak 27912 weight	and name HD1%) 5 and name HE%) peak 27942 weight	and name HD2*) and name HD*) eak 27982 weight	D24 2) e1ght
esid 36 2 100	esid 69 esid 18 2.100	[{27452} segid "BxD" and resid 22 segid "BxD" and resid 25 2 500 1 600 1 600 p	resid 22 resid 25 2 100	D " and resid 22 D " and resid 60 1 300 1 300	D " and resid 22 D " and resid 74 2 300 2 200	resid 22 resid 60 2 300	esid 22 esid 74 1 200	[{27632}]	esid 73 esid 70 2 400	(27692) segid "BrD " and resid 73 segid "BrD " and resid 76 2 800 2 000 [rD " and resid 35 rD " and resid 56 1 100 1 100	segid "BrD" and resid 48 segid "BrD" and resid 49	3.000 2.000 5.00 1 (2772) (segid "BrD" and resid 70 (segid "BrD" and resid 70	2 100 esid 78		i ii	resid 78	0 000 resid 78	2 000 resid 78 resid 82	re re	hrD " and resuc hrD " and resuc 1 700 1	3rD and re 3rD and re 1 200	3rD " and re 3rD " and re 1 100
((segid "F	ASSI {27442} (segid "E (segid "E 2 400	ASSI {27452} (segid "E (segid "E 2 500	ASSI (27472) (segid "BrD " and ((segid "BrD " and 3.400 2 900	ASSI (27492) (segid "E . ((segid "E	ASSI (27552) (segid "Bi (segid "Bi 2 300	ASSI {27572} (segid "BrD " and ({ segid "BrD " and 3 200 2 600	ASSI (27582) (segid "B (segid "B	ASSI (27632) (segid "1 (segid "1 2 500	ASSI (27662) (segid "] ((segid "] 3 100	ASSI (27692) (segid "E (segid "E 2 800	ASSI {27712} ((segid "1 ((segid "1 2 100	ASSI {27722} ((segid "B (segid "B	3.000 ASSI (27772) ((segid "B. ((segid "B	3 400 ASSI {27822} ({ peg1d "F ({ peg1d "F	3 800 ASSI (27842) ((segid "E	3 700 3 400 ASSI {27872} ((segld "BrD " and ((segld "BrD " and	ASSI {27882} ((segld "BKD " and ((segld "BKD " and	5 500 5 500 ASSI (27892) ({ segid "BrD " and ((segid "BrD " and	2 500 2 500 OR {27892} ({ segid "BrD " and (segid "BrD " and	ASSI (27912) ({ segid "BrD " and (segid "BrD " and 3 600 3 200	ASSI {27942} (segid "E (segid "E 2 600	ASSI (27982) (segid "E (segid "E 2 200	ASSI [27992] (megad "1 ((megad "1 2 100 OR [27992]

3 002	4 966	4 516	4 468	2 881	3 199		1 083	1 863	7.811	5 018		2.483	2 443	2 442	4 550	4 550	2 731	2 798	1 905	1 327	060 8	1.604	3 077
1.848 ppm2		1 847 ppm2	2 536 ppm2	2 536 ppm2	2 535 ppm2		1 947 ppm2	2 535 ppm2	4 361 ppm2	2 779 ppm2		5 346 ppm2	4 360 ppm2	4 755 ppm2	4 755 ppm2	5 000 ppm2	5.000 ppm2	5 003 ppm2	4 804 ppm2	S 445 ppm2	4 508 ppm2	4 507 ppm2	4.607 ppm2
0 23714E+02 ppm1	36305E+02	0 98620E+01 ppm1	0 40557E+02 ppm1	0 17311E+03 ppm1	0 12717E+03 ppm1		0 80321E+02 ppm1	0 10558E+03 ppm1	0 678595+02 ppml	0 32210E+02 ppm1		0.37115E+02 ppm1	0 85748E+02 ppml	0 38576E+02 ppm1	0.51818E+03 ppml	0 14178E+03 ppm1	0 83013E+02 ppm1	0 87723E+02 ppm1	0 13311E+02 ppml	0 14252E+02 ppml	0 60630E+02 ppm1	0 72004E+02 ppm1	0 52302E+02 ppml
• 0 10000E+01 volume	volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume
and name HEF) and name HBZ)) peak 29052 weight	and name and name peak 29132	and name HE%) and name HA)) peak 29142 weight	and name HEt) s and name HA)) peak 29172 weight	and name HEt) and name HB2)) peak 29222 weight	and name and name peak 29232	and name	and name HB2)) and name HG1t) peak 29292 weight	and name HEt) peak 29302 weight	and name HA }) peak 29382 weight	and name HG1)) seah and name HB1)) peak 29472 weight	and name	and name HA)) and name HB2)) peak 29602 weight	and name HB2)) and name HB1)) peak 29622 weight	and name HB1)) and name HB1)) peak 29632 weight	and name HB2)) and name HD1)) peak 29642 weight	3 and name HB1)) 1 and name HD1)) 2 peak 29652 weight	resid 93 and name HB1)) resid 94 and name HB1)) 2 400 peak 29662 weight	3 and name HA }} 1 and name HG1 }} 0 peak 29672 weight	resid 108 and name HA)) resid 111 and name HG2)) 1 200 peak 29692 weight	o and name HA)) 22 and name HD1%) peak 29752 weight	and name HB2 }) and name HB1 }) peak 29772 weight	send 30 and name HB2 }) send 101 and name HG2*) 2 300 peak 29782 weight	7 and name HB1)) 4 and name HB2)) 0 peak 29792 weight
BrD " and resid 59 BrD " and resid 74 3 800 1.600	22	(29142) segid "BTD " and resid 59 segid "BTD " and resid 75 4 500 4.500 1 000	{29172} segid "BrD " and resid 54 segid "BrD " and resid 58 3 500 3 100 2 000	[{29222} segid "BrD " and resid 54 (segid "BrD " and resid 57 2 800 2 000 2.000	} "BrD " and resid 54 "BrD " and resid 59 2 100 2 100		segid "BrD " and resid 54 segid "BrD " and resid 81 3 200 2.600 2 300	rD " and rD " and 2 200	(*535.8.4) segid "BrD " and resid 32 segid "BrD " and resid 32 3 200 2 600 2 300	segid "BrD " and resid 91 segid "BrD " and resid 93 3 400 1 800 1 800	{29412} { segid "BrD " and resid 91 { segid "BrD " and resid 93 I {29602}	"BrD " and resid 70 "BrD " and resid 73 3 200 1 900	(segid "BrD " and resid 70 (segid "BrD " and resid 9 3 100 2 400 2 400	[296.2] segid "BrD" and resid 70 segid "BrD" and resid 9 3 600 3 200 1.900	{29642} segid "BrD " and resid 93 segid "BrD " and resid 91 2 300 1 300 1 300	[{29652} (segid "BrD " and resid 93 (segid "BrD " and resid 91 2 900 2 100 2 100	rD " and rD " and 2 400	{29672} segid "BrD " and resid 93 segid "BrD " and resid 91 3 100 2 400 2 400	rD " and rD " and 4.300	(29752) 8egid "BrD " and resid 30 8egid "BrD " and resid 102 4.200 4.200 1 300 p	[29772] segid "BrD " and reald 30 [segid "BrD " and reald 28 3 300 2 700 2 200		(29722) segid "BrD" and resid 27 segid "BrD" and resid 24 3 400 2 900 2 100
ASSI {29052} (segid "BxD ' (segid "BxD ' 3 900	ASSI {29132} (segid " ((segid "	ASSI (29142) (segid "E ((segid "E 4 500	ASSI {29172} (segid "B ((segid "B 3 500	ASSI (29222) (segid " ((segid "	ASSI {29232} (segid "BrD " and re (segid "BrD " and re 2 900 2 100	OR {29232} (segid " ((segid " ASSI {29292}	((segid "B (segid "B 3 200	(segid "B	(segid "Bi (segid "Bi (segid "Bi	((segad () () () () () () () () () () () () ()	(segid ' (segid ' (segid ') ASSI (29602)	((segid ' ((segid ' 3 600	(megad (megad ()	ASSI (29632) ((segid "B ((segid "B	ASSI (29642) ((segid "B ((segid "B 2 300	ASSI {29652} ((segid "i ((segid "i 2 900	ASSI {2962} ((segid "B ((segid "B () segid "B	ASSI {29672} ((segid " ((segid "	ASSI (29692) ((8egid ") ((8egid ") 4 300	ASSI (29752) ((segid "B (segid "B 4.200)	ASSI {297/2 ({ segid ({ segid 3 300	ASSI (29782) ((segid "B (segid "B) 3.200	ASSI (29792 ((segid ((segid 3 400
																						,	-
7 245	7.534	5 553	4 525	4 354	5.574	3 882	2 473	969 0	1 750	5 395	4 419		,	1 140	1 978	1.661	1 424	1 583	1 263	3 451	900	2 018	1 944
1.303 ppm2 7 245	1 303 ppm2 7.534		1 303 ppm2 4 525		1 303 ppm2 5.574	1 303 ppm2 3 882	1 305 ppm2 2 473						z wdd	.139 ppm2	190 ppm2 1	3 190 ppm2 1.661	2 188 ppm2 1 424		4	£ zuďď	1 548 ppm2 4 900	1 848 ppm2 2 018	1 848 ppm2 1 944
ppm1 1.303 ppm2 7	86642E+02 ppml 1 303 ppm2	83600E+02 ppm1 1 303 ppm2 5	15974£+03 ppml 1 303 ppm2 4	ppm1 1,303 ppm2 4	73306E+02 ppml 1 303 ppm2	36289E+02 ppml 1 303 ppm2 3	68526E+02 ppml 1 305 ppm2 2	55554E+02 ppml 1.303 ppm2 0	67664E+03 ppml 1.352 ppm2 1	ppml 2 141 ppm2 5	45932E+03 ppml 2 190 ppm2 4		t 732 blue	ppml 2.139 ppm2	ppm1 2 190 ppm2 1	26332E+03 ppml 2 190 ppm2	69706E+03 ppml 2 188 ppm2 1	19745E+02 ppml 2 188 ppm2 1	51456E+02 ppml 4 807 ppm2 l	ppml 1 549 ppm2 3	163198+03 ppml 1 546 ppm2 4	ppm1 1 848 ppm2 2	22344E+04 ppml 1 848 ppm2 1
10000E+01 volume 0 38923E+02 ppml 1,303 ppm2 7	10000E+01 volume 0 86642E+02 ppm1 1 303 ppm2	+02 ppml 1 303 ppm2 5	volume 0 15974E+03 ppml 1 303 ppm2 4	volume 0.44750E+02 ppml 1.303 ppm2 4	volume 0 73306E+02 ppml 1 303 ppm2	volume 0 36289E+02 ppml 1 303 ppm2 3	Volume 0 68526E+02 ppm1 1 305 ppm2 2	10000E+01 volume 0 55554E+02 ppml 1.303 ppm2 0	10000E+01 volume 0 67664E+03 ppml 1.352 ppm2 1	volume 0 10599E+03 ppml 2 141 ppm2 5	Volume 0 45932E+03 ppml 2 190 ppm2 4		Notinus o 101792405 prints	0 47604E+02 ppml 2.139 ppm2	0 394678+02 ppml 2 190 ppm2 1	103 ppm1 2 190 ppm2	volume 0 69706E+03 ppml 2 188 ppm2 1	volume o 19745E+02 ppml 2 188 ppm2 1	volume 0 51456E+02 ppml 4 807 ppm2 1	Volume 0 338495+02 ppml 1 549 ppm2 3	volume 0 161198+03 ppml 1 548 ppm2 4	volume 0.32346E+03 ppml 1 848 ppm2 2	volume 0 223448+04 ppml 1 848 ppm2 1
1024) 104) reight o 10000E+01 volume O 18921E+02 ppml 1.103 ppm2 7	HD24) HD1) weight 0 10000E+01 volume 0 86642E+02 ppml 1 303 ppm2	HD2*) Weight 0 10000E+01 volume 0 #3500E+02 ppm1 1 303 ppm2 5	HHD.1) HD.1) Weight 0.1000DE+01 volume 0.15974E+03 ppml 1.303 ppm2 4	HRD 1) Walght 0.10000E+01 volume 0.44750E+02 ppm1 1.303 ppm2 4	HD14) HH2)) weight 0 10000E+01 volume 0 73306E+02 ppml 1 303 ppm2	HHD1) HHD1) weight 0 l0000E+01 volume 0 16289E+02 ppml 1 303 ppm2 3	HR24) weight 0 10000B+01 volume 0 68526E+02 ppm1 1 305 ppm2 2	and name HD24) and name LD24	HED1) HEG21 HEG21 0.10000E+01 VOLUME 0.6764E+03 ppml 1.352 ppml 1	and name NG2)) and name NG2)) and name NG2)) 8 (10008+01 volume 0 105996+03 ppm1 2 141 ppm2 5	and name HB1)) and name HB2) and name WA) 1.190 ppm2 4	and name HA))	and name HO 1	and name HB1)	weight 0 10000E+01 Volume 0 39467E+02 ppml 2 190 ppm2 1 HHA1)	weight 0 10000E+01 volume 0 26332E+03 ppml 2 190 ppm2 HBB.)	weight 0.10000E+01 volume 0 69706E+01 ppml 2 188 ppm2 1 HB1)) HG2()	and name HB1)) and name HB1 () and name HB1) () esk Zesk verjät () 10000E+01 volume 0 19745E+02 ppml 2 188 ppml 1	and name [A]) and aname [A] () and aname (A) () and aname (A) () and (A) ()	and name HD14) and name HD14) peak 2893 HG1) 1 549 ppm2 3	and name ND14) and name ND 4 penk 28943 weight 0 100008+01 volume 0 163198+03 ppml 1 548 ppm2 4	and name MR4) and name MR4 () peak 29012 Weight () 10000E+01 volume 0.33346E+03 ppml 1 648 ppm2 2	and name HB2)) and name HB2)) peak 29042 weight 0 10000E+01 volume 0 22344E+04 ppm1 1 848 ppm2 1
resid 82 and name HD24) (resid 82 and name HD4) (1 900 peak 28562 weight (0 100008+01 volume (0 389218+02 ppm) 1.103 ppm2 7	and reald 102 and name HD24) and reald 106 and name HD1) 400 2 400 peak 28582 weight 0 10000E+01 volume 0 86642E+02 ppml 1 303 ppm2	DP "and reseal 102 and name HD21) 2 400	and resual 105 and name HID1) and resual 106 and name HID1) ooo 2 000 peak 28632 weight 0.10000E+01 volume 0 159748+03 ppml 1 303 ppm2 4	and reals 21 and name RD2) and reals 21 and name RD)) 100 2 000 peak 28642 weight 0.10000E+01 volume 0.4475GE+02 ppml 1.303 ppm2 4	esed 102 and name MD1) esed 206 and name MD2)) es 300 peak 26662 weight 0 10000E+01 volume 0 73306E+03 ppm1 1 303 ppm2	and resetd 105 and name HD21) and resetd 106 and name HB1.) 100 1 900 peak 28702 weight 0 10000E+01 volume 0 16289E+02 ppml 1 303 ppm2 3	and resid 102 and name HD24) and resid 21 and name HB) and name HB) 3 200 peak 28722 weight 0 10000E+01 Volume 0 68526E+02 ppml 1 105 ppml 2	and reskd 102 and name HD24) and reskd 26 and name HD24) 000 2.100 ppeak 26792 weight 0 10000E+01 volume 0 55554E+02 ppml 1.100 ppm2 0	and reard 115 and name HD11) and reard 17 and name HD21 (1000E+01 volume 0 67664E+03 ppml 1.352 ppml 1 1	and reaid 66 and name NO2)) and reaid 65 and name AD 2	and reaid 115 and name HB1)) and reares 110 and name HB1) 400 T 400 peak 28918 weight 0 100008401 volume 0 459328403 ppml 2 190 ppm2 4	eard 115 and name HG))	2 000 pask 2002 weight 0 10000ar01 Volume 0 101.500.0 ppm; 2 137 ppm; 3 2 000 pask 2002 weight 0 10000ar01 Volume 0 101.500.0 ppm; 3 2 000 ppm; 3 2	2 100 peak 28842 weight 0 10000E+01 Volume 0 47604E+02 ppml 2.139 ppml 2 cocost 115 and name HB4)	1 900 peak 28854 weight 0 10000E+01 volume 0 38467E+02 ppml 2 190 ppm2 1 regard 115 and name HBL)	1 900 peak 20872 weight 0 10000E+01 volume 0 26332E+03 ppm1 2 150 ppm2 eestal 113 and name HB1)	200 1 200 peak 2882 weight 0.10000E-01 volume 0 6970EE-03 ppml 2 188 ppm2 1 and read 11s and neme HB1) and read 11s and neme HB1)	eskd 115 and name HB1)) 1500 peak 28628 W4012h (0 10000E+01 Volume 0 19745E+02 ppml 2 188 ppm2 1	read 115 and name [UA]) caud 110 went name [UA] 2 100 peek 28912 Weight 0 10000E+01 volume 0 \$1456E+02 ppml 4 807 ppm2 1	bold 56 and name HD11) 1800 peak 28932 W:021 0 .10000E+01 volume 0 33849E+02 ppml 1 549 ppm2 3	centd 56 and name HD18) 2 000 penk 28943 webylt 0 100008-01 volume 0 161198+03 ppn1 1 548 ppm2 4	besid 59 and name HEt) 2 and man lame HEt) 2 and peak 200124 HE) 3 and peak 200124 HE)	HER!) HB2)) weight 0 l0000E+01 volume 0 22344B+04 ppml 1 848 ppm2 1

2.823	7 819	7 486	4 646	764.7		7 261	7 421	7 261	4 154	3 527	3.279	3,104	1 148	4 533	7 773		9	4 678	3 570	7 780	7.888	4 679	5,744
4.653 ppm2	2 536 ppm2	2 289 ppm2	496	2 388 ppm2		2 758 ppm2				5 688 ppm2		S 758 pom2	2 e85 ppm2				6 874 ppm2	6.872 ppm2	6.874 ppm2	7 293 ppm2	7.293 ppm2	7 292 ppm2	7 246 ppm2
.68767E+02 ppml	0.81070E+02 ppml	75523E+02 ppml		0.34/496+03 ppm1		0 62066E+02 Ppml	110868+02	78634E+01	.117486+03			0.14809E+03 ppm1					0 67483E+02 ppm1	12803E+03 ppm1	22980E+03 ppm1	0,604908+02 ppml	0,16842E+03 ppm1		0 56184E+02 ppml
0.10000E+01 volume 0.	0 10000E+01 volume 0	0.10000E+01 volume 0	volume	0 100000E+01 Volume 0.		0 110008+01 Volume 0	volume	volume	volume	volume	volume	0 11000E+01 volume 0	volume	11000E+01 volume			0 11000E+01 volume 0	11000E+01 volume 0	0.11000E+01 volume 0	11000E+01 volume 0	0.11000E+01 volume 0		0 11000E+01 volume 0
eak 30722 weight and name HB1))	seid 105 and name HDt) 2 300 peak 30772 weight esid 19 and name HBl))	cald 13 all lame ner) 2 300 peak 30922 weight cald 59 and name HB2)) eard 56 and name HA))	1 300 peak 30962 weight esid 22 and name HG))	2 000 peak 31062 weight esid 54 and name HG1)) ceald 77 and name HA))	2 400 peak sites weight ceid 46 and name HD*)	2 100 peak 13 weight eard 47 and name HD#)	sold 46 and and and and and and and	esid 46 and name	eegid "ErD" and resid 46 and name HDF) segid "ErD" and resid 46 and name HA)) segid "1700 and resid 46 and name HA))	eegid "BrD" and xeeld 46 and name HE1) eegid "BrD" and xeeld 48 and name HE1) eegid "BrD" and reedd 88 and name HE1) eegid "BrD" 3300 and 2300 and	segid "Brp" and reald 46 and name HE1) segid "Brp" and reald 46 and name HE1) segid 2.700 2.200 peak 113 weight	esid 46 and name HDt) esid 46 and name HBZ))	seid 46 and name HB*) seid 50 and name HD1*) 2 200 peak 153 weight	resid 28 and name HE1)) resid 28 and name HA)) 1 900 beak 273 Weight	send 67 and name HD*)	lame HD*)	2.600 2 000 2.000 peak 343 weight [353] segid "BrD" and reeid 67 and name HD\$) secid "BrD" and resid 67 and name HA))	2 500 1 600 1 600 peak 353 (373) eegad "Brb" and resid 67 and name	373 weight name HE')	2.100 peak 383 esid 67 and name	1,400 peak 403 weight resid 67 and name RE%)	z 200 peak 433 Weight zesid 47 and name HEt)	2 100 peak 463 weight
ISSV	ASSI	ISSK	ASSI ((ASSI ()	A551	ASS!	ASSI ((ASSI	A551	ASS (ASSI (ASS.	ASS. (ASS.	ASS { () () () () () () () () () (ASSI)	ASSI ()	1504	ASSI		188 4	A ASSI	ASSI
	1 ppm2 5 390	3 ppm2 5 390	3 ppm2 7 488	1 ppm2 7 488	1 ppm2 5 387	4 ppm2 5 395	3 ppm2 1 550	1 ppm2 1 551	9 ppm2 4.011	6 ppm2 3 706	.6 ppm2 7 891	6 ppm2 7 835	10 ppm2 1 489	11 ppm2 7 722	10 ppm2 3 028	12 ppm2 2.206	18 ppm2 2 206	19 ppm2 4 591	77 ppm2 4 590	14 ppm2 2 968	56 ppm2 1 588	53 ppm2 2 964	
*	3 631	3 673	3 673	3,631	\$ 001	2 634	2 633	2 701	4 459	1 896	1 946	1 946	2 190	1 891	091.00	1 892	8 4 0 8 1	620 E	721 8 1	1 994	4 656	4 653	
	0,19067E+02 ppml	0 12737£+02 ppml	0 17551B+03 ppm1	0 20920E+03 ppml	0 404278+02 ppml	0 75028E+01 ppml	0 23433E+02 ppml	0 22947E+02 ppml	0 721298-01 ppm1	0 91298E+02 ppml	0 122436+03 ppm1	0 96863E+02 ppm	0 45416E+02 ppm1	0.30501E+02 ppm1	0 52723E+02 ppm1	0 49767E+03 ppml	0 29716E+03 ppm1	0 11843E+03 ppml	0 25593E+02 ppml	0 67000E+02 ppm]	0 34166E+02 ppm	0 26014E+02 ppm	
	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 100008+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 loocos+ol volume	
irD and reeid 27 and name HB1))	and name HD2)) and name HA)) peak 29832 weight	resid 66 and name HD1)) resid 65 and name HA)} 1 200 peak 29842 weight	resid 66 and name HD1)) resid 15 and name HEt) 2.000 peak 29852 weight	resid 66 and name HD2)) resid 15 and name HE%) 1 800 peak 29882 weight	resid 66 and name HA)) resid 65 and name HA)) 2 000 peak 29912 weight	resid 66 and name HB2)) resid 65 and name HA }) 0 800 peak 29922 weight	resid 66 and name HB2)) resid 69 and name HG1%) 1 600 peak 29982 weight	cald be and name Hall) 1 600 peak 29992 weight	cestd 53 and name HA //	esid 103 and name HBZ)) esid 82 and name HBI)) Z 400 peak 30062 weight	and name HG11)) and name HE*) and 30132 weight	2 400 peak 30142 weight	esid 64 and name HG1)) esid 63 and name HD2%) 2 000 peak 30182 weight	teatd 96 and name HD%) 1 800 peak 30262 weight	1))	resid 103 and name HB2)) resid 99 and name HB*) 1 300 peak 30362 weight	1)) •)	resid 109 and name HE2)) resid 106 and name HA)) 2.200 peak 30492 weight	sad 109 and name RE1)) seld 106 and name HA)) 1 700 peak 30502 weight	HD1)) HQ1)) Weight	<pre>beld 109 and name HA)) beld 21 and name HG2%) 1 900 peak 30682 weight</pre>	(40702) (degid "BrD " and resid 109 and name HA)) (cegid "BrD " and resid 112 and name HG1)) 3.000 3 600 1 700 peak 30702 weight (10722)) " and resid 109 and name HA))

3.674	3 352	4 446		7 785 2 000	, q	7 261	1 076	1 791	1 601	1 528	4 927	1 704	7 494	2 595	1 718		9	3 527	3 454		3 953	3.804
7.896 ppm2	7 478 ppm2	7 478 ppm2	617	7 619 ppm2	757		6 688 ppm2	5 758 ppm2	8 130 ppm2	8 129 ppm2	8 129 ppm2							7 413 ppm2	7 711 ppm2		7 803 ppm2	7 803 ppm2
0.29123B+02 ppm1	0 226416+02 ppm1	0 35285E+03 ppml	23591E+02	0 97461E+03 ppm1	401558+03	105578+03	6	0 36832B+02 ppm1	0 66486E+02 ppm1	0 12057E+03 ppm1	0.53269E+02 ppm1	0 13584E+02 ppm1	18520B+02	112158+03	665430+02		0 /123/E+04 ppm1	0 21121E+02 ppm1	0 40018B+02 ppm1		0 14816E+02 ppm1	0.38863E+02 ppml
0.11000E+01 volume (0 11000E+01 volume (0 11000E+01 volume (volume	0.11000E+01 volume	em los	volume	+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	was for coraposor of		O IGGGGE+GI VOLUME	0 10000E+01 volume	0 10000E+01 volume		0.10000E+01 volume	0 10000E+01 volume
.600 2.300 peak 1583	esid 95 and hame esid 95 and name 2.100 peak 1793 esid 95 and name	1 100 peak 1 100 peak esid 95 and	peak 1983 and name	0 800 peak 1943 esid 95 and name	eeld 32 and name	resid 82 and name ceid 82 and name 1 700 peak 2133	esid 46 and name esid 38 and name 2 200 peak 163	and name and name peak 183	esid 28 esid 10 2 000	esid 28 and name esid 101 and name 1 700 peak 263	esid 28 and esid 30 and 2 100 peak	esid 74 and name esid 63 and name 1.800 peak 733	eald 82 and name eald 106 and name 2 000 peak 793	1113) agid "BrD" and resid 68 and name agid "BrD" and resid 68 and name 11700 name 11131	1133} egid "BrD" and resid 68 and name egid "BrD" and resid 62 and name of the first of the firs	1173) egid "BrD" and resid 105 and name	2 000 peak 1173 resid 105 and name resid 102 and name	(1353) segid "BrD" and resid 88 and name HEt) segid "BrD" and resid 88 and name HBl)) 3 400 2 900 2 .100 peak 1353 weight	esid 96 and name esid 100 and name 2 400 peak 1423	1 resid 96 and name		1 (1921) and resid 107 and name HDV) segid "BrD" and resid 103 and name HA)) 3.100 2.400 peak 1663 weight [1753] segid "BrD" and resid 106 and name HEV) segid "BrD" and resid 55 and name HEV)
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and name HEV)	Deak 493 weight 0 11000E+01 volume 0.27001E+02 ppml 7 246 ppm2 and name HDt and anne HDt 42 ppm	peak. 503 PEG-51. C. 11000E+01 Volume 0 10449E+01 ppml 8 455 ppm2	name HD1)) sea weight 0 11000E+01 volume 0.53265E+02 ppml 8 456 ppm2 3	and name HDt) and name HA)) peak 603 weight 0 11000E+01 volume 0 15470E+03 ppml 7.013 ppm2 4	and name HDt } and name HDt } paak	and name NDF) and name HBL); paak 65 weight 0 11000E+01 volume 0 19360E+03 ppml 7 664 ppml 3	and name HB2)) and name HB2)) and name HB2)) and name HB2) and name HB2)	and hamee RA.)) 4 and class (939 weight 0.110008.01 volume 0 17907E+02 ppm.) 7 478 ppm2 4 and name RE.)	and name HB2 1) peak 30 weight 0 110006+01 volume 0 775156+01 ppml 7 478 ppm2 3 and name 785 1	and name ND%)	and hamme HDN) and hamme HDN) and an weight o liceos+ol volume O 57511E+O2 pgml 7 850 ppm2 6 perd norm HDN HD)	and have his / and his / a	And hame ND) An	and name HDV) and name HDV) and name HDV) and name HDV) peak 126.3 seaght 0.11000E+01 volume 0 62764E+02 ppml 7 618 ppm2 6	and hame HOV) and name HOV) peak 1283 weight 0 11000E+01 volume 0 38726E+02 ppm1 7 616 ppm2 5	and name HD) and name HD) peak 1303 veight 0 11000E+01 volume 0 31179E+03 ppml 7 616 ppm2	and name RE4) and name RE4) peak 1313 weight 0 110000£+01 volume 0 64049E+02 ppml 7 410 ppm2 4	and some KDV) and some KA D) peak 1123 weight 0 11000E+01 volume 0 38562E+02 ppm1 7 618 ppm2	and name HEB) and name HEB) peak late weight o lloods.ol volume o 210105-01 ppml 7 616 ppm2	and name HDV) and name HDV) and name HDV) pack 1400 (11000E+01 volume 0 18299E+03 ppml 7 711 ppm2	and name HDV) And name HDV 1 Anna HBM	and name HD k) and name HA)) peak 1563 weight 0 11000E+01 volume 0 28381E+03 ppml 7.708 ppm2 4 in name HER) in name HER)
9886	1 2 200 peak 493 weight 0 11000E+01 volume 0.27001E+02 ppml 7 246 ppm2 d reead 47 and name HDt) d reead 47 and name HDt) d reead 47 and name Constant (1000 ppm) 42 ppm (1	d recad 32 and name MD1); ind real 32 and name MD1); 1 700 peak 83 assight 0 11000E+01 volume 0 10449E+01 ppml 8 455 ppm2	id resid 12 and name HD1)) nd resid 32 and name HB2))) 2 100 peak 563 weight 0 11000E+01 Volume 0.53265E+02 ppml 8 456 ppm2 3	and resid 74 and name HDt) and resid 74 and name HJ) 600 1 600 peak 603 weight 0 11000E+01 volume 0 15470E+03 ppml 7.013 ppm2 4	and featd 15 and name HDV } 00 0 900 pank 641 weight 0 11000E+01 Volume 0 61785E+03 ppml 7 664 ppm2 4	and resid 15 and name HDt) and resid 15 and name HDl) 400 1 400 peak & 63 weight 0 11000Er01 volume 0 19360Er03 ppml 7 664 ppml 3	for the state of t	and resuld is and name HA.)) 0.2.000 peak 839 weight 0.110008+01 volume 0 17907E+02 ppml 7 476 ppm2 4 and zeard is and name HE)	and name HEZ 1) 1 500 peak 901 weight 0 11000E+01 volume 0 77515E+01 ppml 7 478 ppm2 3 rend 68 and name HEX)	and resid 7s and name NOs) and resid 7s and name NOs) and resid 5s and name NOs) and resid 5s and name NOs)	cests 67 and name HDN) 2 loop gadk lood weight o lloods-ol volume o 575118-02 pgml 7 850 ppm2 6 2 loop gadk lood weight o lloods-ol volume o 575118-02 pgml 7 850 ppm2 6	eric 6 and have Mt. 1) eric 6 and have Mt. 1) 2.100 past 1003 weight 0 11000E+01 volume 0 51154E+02 ppml 7 050 ppm2 5	ests & and name (D) / (100 c) / (100	enid 88 and name HDV) Enid 68 and name HBV) 2 dog peak 1263 weight 0.11000E+01 volume 0 627648+02 pgml 7 618 ppm2 6	esial 89 and hame RDF) Esial 6 and hame HDF) 2 400 peak 1283 weight 0 11000E-01 volume 0 38726E+02 ppml 7 616 ppm2 5	esid 88 and names HA) 1 200 peak 1303 veight 0 11000E+01 volume 0 31179E+03 ppml 7 616 ppm2	east 68 and name HEV) asid 68 and name HAV)) 2 000 peak 1313 weight 0 11000E+01 volume 0 64049E+02 ppm1 7 410 ppm2 4	osid 8s and name NO)) cold (4 and name NO)) 2.400 pank 1323 weight 0 11000E+01 volume 0 38562E+02 ppm1 7 618 ppm2	eaid 88 and name HB1) serid 88 and name HB1) 1.300 paak 1550 weight 0 110005+01 volume 0 210105+03 ppml 7 616 ppm2	esid 96 and name HDt) esid 96 and name HD 1 11000 park 1403 weight 0 110008+01 volume 0 182998-03 ppml 7 711 ppm2	Seeld 56 and name HD1) Seeld 56 and name HD1) 1 400 paak 1131 seight 0 1140005+01 volume 0 156878-01 ppml 7:712 ppml 1 400 paak 1131 seight 0 114005+01 volume 0 156878-01 ppml	name HDt) 1503 weight 0 11000E+01 volume 0 26381E+03 ppml 7.708 ppm2 4 1609 meight 0 11000E+01 volume 0 26381E+03 ppml 7.708 ppm2 4 1000 mane HBt)

3 708	3 571	7.076		3.304	888 886	3 790		1 706	4 814	2 781	2 211	2 802	4 439	7 927	7 793	2 994	3 154	7.797	-0 311		2 667
7 265 ppm2	7 262 ppm2	7 262 ppm2	7.005 ppm2	5 743 ppm2 5 740 ppm2	.577	7 265 ppm2	9.99	6 899 ppm2		490	8 490 ppm2	8 008 ppm2	8 058 ppm2	8 058 ppm2	8 058 ppm2	8 059 ppm2	8 008 ppm2	8 004 ppm2	2 959 C	and district	7 961 ppm2
0 67788E+03 ppm1	0 77298E+03 ppml	0.12642E+04 ppm1	0 64123E+03 ppml	0 17599E+04 ppm1		0 224326+03 ppm1	89209E+02	0 212866+03 ppml	64/42E+02 97341E+02	38880E-03	301176+02	0 14239B+03 ppml	0 17938E+03 ppml	0 195838+04 ppml	0.49678E+03 ppml	0 34018E+03 ppm1	0.45123E+03 ppml	0 13157E+04 ppm1	119628+03	0.119628+03	0.29399E+03 ppml
0 10000E+01 volume	0 10000E+01 volume	0.100008+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01	0 10000E+01 volume	0.100008+01	0 10000E+01 volume	0 100006+01	0 10000E+01	0 10000E+01	. 0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	1 1 0 10000E+01 volume) ; c 0 10000E+01 volume)) E 0 10000E+01 volume	101300001	_	t 0.100006+01 volume)
and name HD*) and name HB1)) peak 3204 weight	and name and name peak 3214	and name and name peak 3304	and name HDt) and name HB2)) peak 3644 weight and name HDt)	peak 3894 and name and name	peak 3914 and name and name peak 4064	and name and name peak 84	7 and name HD*) 2 and name HA) 9 peak 174 weight 7 and name HD*) 2 and name HB2))	peak 244 and name and name	Seak Seand	and name and name	and name and name peak 504	.07 and name HZ)) '9 and name HB1)) '0 peak 564 weight	resid 107 and name HZ)) resid 79 and name HA)) 2 200 peak 624 weight	(07 and name HE')) (07 and name HE')) peak 634 weight	sid 107 .and name HZ)) sid 107 and name HD*) 2 000 peak 644 weight	resid 107 and name HZ)) resid 79 and name HGl)) 1 800 peak 664 weight	32 and name H22)) 94 and name HG1)) 00 peak 694 weight	and name and name peak 714	and name	peak 724 and name and name	peak 804 and name
"BrD " and resid 82 "BrD " and resid 82 1 400 1 400	"BrD " and re "BrD " and re 1 300	4) "BrD " and resid 82 "BrD " and resid 82 1 100 1 4}	begid "BrD " and resid 74 (segid "BrD" and resid 74 2 400 1 400 1 400 1 400 1 600 1 8994)	1 000 1.000 "BrD" and resid 46 "BrD" and resid 46	1 400 1 400 "BrD " and resid 28 "BrD " and resid 26 "BrD " and resid 26	4) "BrD " and remid 8: "BrD " and resid 1. 2 100 2 10	aegid "BFD" and reald 67 (aegid "BFD" and reald 62 3 300 2 700 2 200 1	2.100 2 100 E BrD	3.500 3 100 2 000 [{ 464}	494) (494) (494) aegid "BrD " and resid 32 aegid "BrD " and resid 33 5.500 5.500 0000	1 "BrD " and resid 32 1 "BrD " and resid 33 4 000 1.500	54} 1 "BrD " and resid 107 1 "BrD " and resid 79 2 400 2 400 pv	I { 624} (segid "BrD " and resid 1 (segid "BrD " and resid 7 3.000 2 200 2 20	6 614) eegid "BrD " and resid 107 eegid "BrD " and resid 107 2 000 1 000 1.000 px	IrD * and re IrD * and re 2.500	rD " and re irD " and re 1.800	{ 694} segid "BrD " and resid 32 segid "BrD " and resid 94 2 500 1 600 1 600	[714] { segid "BrD " and resid 32 { segid "BrD " and resid 32 2 100 2.100 2.400	8egid "BrD" and resid 32	3.200 2.600 2.300 { 804} segid "BrD " and resid 32 segid "BrD " and resid 97	2.700 1.800 1.800 (854) 854 8691d BrD and resid 32 8691d "BrD and resid 32
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4,534	4 985	3 920	1 047	7 509	7 509		3 415	7 321	2 664	5 140	3 546	7 418	4.977	4 213	4 116	7 614	3.124	4 115	7.483	4 001	7 006
7.617 ppm2	7 478 ppm2	7.479 ppm2	478 ppm2	757 ppm2	.3 ppm2		0 ppm2	o ppm2	9 ppm2	ppm2	Zwdď i	2 ppm2	1 ppm2	0 ppm2	ppm2	2mqq	ppm2	ppm2	ppm2	611 ppm2	539 ppm2
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volume 0.13649E+02	Volume 0 272385+02	volume 0 27537E+02	volume 0 30330E+02 ppml 7 volume 0 17985E+02 ppml 7	ppm1 7				0 10000E+01 volume 0 18744E+04 ppm1 6 90	v	7	-	7	80	æ		ppm1	ppm1 7	ppm1 7 714	0.10000E+01 volume 0 28924E+04 ppm1 7	0.10000E+01 volume 0 86809E+02 ppml 7	0.10000E+01 volume 0 18278E+04 ppml 7
peak 1753 weight 0.10000E+01 volume 0.13649E+02	and name HDV) and name HAX)) peak 1803 weight 0 100005+01 volume 0 27238E+02 and name HDV)	and name HB1)) peak 1853 weight 0 10000E+01 volume 0 27537E+02 and name HB1) and name HB1)	And name #81 / 0 10000E401 volume 0 30330E402 ppml 7 and name #81) and name #81)	name HHZ)) name HDk) 1003 weight 0 10000E+01 volume 0 52192E+01 ppml 7	name HTZ)) name HDV) name HDV 0 10000E+01 volume 0 111278+02 ppml 7 name HEV)	lamme HG1)) 218 weight 0 10000E+01 volume 0 19805E+02 ppml 7 anne HD)	TS weight 0 10000E+01 volume 0 95356E+03 ppml 7 7 7 7 weight 0 10000E+01 volume 0 78871E+03 ppml 7 84 weight 0 10000E+01 volume 0 78871E+03 ppml 7	and name HSt) and name HSt) peak 144 weight 0 10000E-01 volume 0 18744E+04 ppml 6	and name HDV) and name HB2)} peak 214 Weight 0.10000E+01 volume 0.10973E+04 ppml 6	and name HDt) and name HA)) peak 274 weight 0 10000E+01 volume 0 56412E+03 ppml 7	and name HD#) and name HD#) peak, 294 weight 0 10000E+01 volume 0 81340E+03 ppml 7	and mame HPF) and mame HPF) peak 354 weight 0 10000E+01 volume 0 17752E+04 ppml 7	and name NA)) sak 454 weight 0 10000E;01 volume 0 17621E+03 ppml 8 and name H71))	and name (HE.) rak 474 weight 0 10000E+01 volume 0 14234E+03 ppml 8 and name (HE.)	and name HB1)) tak 1694 weight 0 10000E+01 volume 0 91431E+02 ppml 7 and name HD4)	and name HSt) tak 1834 weight 0 100005+01 volume 0 297448+04 ppm1 and name HOt)	and mame HP2) and mame HP2) peak 1914 weight 0 100005+01 volume 0 99570E+03 ppml 7 may make HP4)	and name HDV) and name HDV) peak 2024 veright 0.10000E+01 volume 0 48715E+03 ppml 7 714	and name HDV) and name HEV) peak 2004 weight 0.100008+01 volume 0 289248+04 peml 7	and name HE1)) and name HE1)) peak 2474 Weight 0.100008+01 volume 0 86809E+02 ppml 7	and name NEV) and name NDV) and name NDV) peak 2554 weight 0.100002401 volume D 18278E+04 ppml
1.800 peak 1753 weight 0.10000E+01 volume 0.13649E+02	cead 95 and name HM) 2 200 peak 1803 weight 0 10000E+01 volume 0 27238E+02	name HB1)) 1853 wazght 0 10000E+01 volume 0 27537E+02me HP1)	To 500 peak 1830 weight 0 10000E+01 volume 0 30330E+02 ppml 7 3 030 peak 1830 weight 0 10000E+01 volume 0 30330E+02 ppml 7 3 030 peak 1803 weight 0 10000E+01 volume 0 1795SE+02 ppml 7	reald 32 and name HHZ)) reald 95 and name HD) 1 200 peak 2003 weight 0 10000E+01 volume 0 52192E+01 ppml 7	name HTZ)) name HDV) name HDV 0 10000E+01 volume 0 111278+02 ppml 7 name HEV)	reaid 79 and name HG1)) 2 000 peak 2189 weight 0 10000E+01 volume 0 19805E+02 ppml 7 2 000 peak 2189 weight 0 10000E+01 volume 0 19805E+02 ppml 7 -esid 47 and name HD1))	of and resid 47 and name MD4) 1 300 and resid 47 and name MD4) 1 300 and resid 47 and name MB2) 1 300 and resid 47 and name MB2) 1 300 and resid 54 and name MB2) 1 300 page 64 veryable 0 10000E+01 volume 0 78871E+03 ppm1 7	mend 67 and name HD4) eeld 67 and name H84) 1 000 peak 144 weight 0 10000E+01 volume 0 16744E+04 ppml 6	reard 67 and name HDV) reard 67 and name HDD)) 1 200 peak 214 weight 0.10000E+01 volume 0 10973E+04 ppml 6	cend 68 and name HDF) cend 68 and name HB)) 1 400 peak 274 waight 0 10000E+01 volume 0 56412E+03 ppml 7	Beld 66 and name HDP) egid 66 and name HD2)) 1 300 peak 234 weight 0 10000E+01 volume 0 81340E+03 ppm1 7 7 4	weard on and name High) 1 Ono peak 354 weight o 10000E+01 volume 0 17752E+04 ppml 7 1 to one peak 354 weight 0 10000E+01 volume 0 17752E+04 ppml 7	and name NA)) sak 454 weight 0 10000E;01 volume 0 17621E+03 ppml 8 and name H71))	and name HBL) peak 474 weight 0 100005401 volume 0 142348403 ppml 8 and name HER)	and name HB1)) tak 1694 weight 0 10000E+01 volume 0 91431E+02 ppml 7 and name HD4)	and name HEb) peak 1834 weight 0 10000E+01 volume 0 29744E+04 ppm1 and name HDb)	and so and name HEQ)) in and name HEQ) in and name HEQ) in and name HEQ) in an example of 10000E+01 volume o 99570E+03 ppml 7	Cepaid 34 and name HB1)) Feesaid 34 and name HB1)) 1 600 peak 2024 weight 0.10000E+01 volume 0 48715E+03 ppml 7 7144	meatd 15 and name HIP) 60,900 peak 2084 Weight 0.10000E+01 Volume 0 28924E+04 ppml 7	name HB1)) 6474 waight 0.100008+01 volume 0 868095+02 ppml 7	name HEV) name HDV name HDV 2554 weight 0.10000E+D1 volume D 18278E+04 ppml

COSTILL OFFICE

1 543	7 901	3 920	1 641	4 538	2 666	1 333	8 9 7		3 919	1 706	3 106	2 374	2 274	1 496	2 308	1 580	1 266	0 780	3 919	3 708	7 940	1 545	3.075
7 781 ppm2	7.719 Ppm2	7 714 ppm2	7 689 ppm2	7 650 ppm2	7 646 ppm2	7 647 ppm2	547 Table 2	;	7 644 ppm2	7 616 ppm2	7 611 ppm2	7 611 ppm2	7 611 ppm2	7 539 ppm2	7 535 ppm2	7.541 ppm2	7 529 ppm2	7 530 ppm2	7.524 ppm2	7.524 ppm2	7 513 ppm2	7 318 ppm2	7 270 ppm2
42209E+03 ppm1	35620E+03 ppm1	18188E+03 ppm1	44171E+03 ppml	41516B+03 ppm1	17361E+03	21480E+03	0.000		. 80420E+02 ppm1	. 29483E+02 ppml	16268E+03 ppm1	0 54543E+03 ppm1	0 40048E+03 ppm1	0 18991E+03 ppm1	0 10679E+03 ppml	0 21819E+04 ppm1	0 54850E+03 ppm1	0 46858E+03 ppm1	0 86816E+03 ppml	0 63063E+03 ppm1	0 82229E+02 ppm1	0 28072E+02 ppm1	0 17782E+03 ppm1
0 10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0			0 10000E+10 ADTOUR	0 10000E+01 volume 0	0.10000E+01 volume 0	0 10000B+01 volume 0	0 10000E+01 volume (0 10000E+01 volume (0 10000E+01 volume (0 10000E+01 volume (0,10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume
esid 68 and name HDV) esid 73 and name HDIV) 1.700 peak 1794 weight	esid 34 and hame HD*) esid 34 and hame HZ)) 1700 peak 1904 weight	esid 34 and name HDt) esid 85 and name HBI)) 2 200 peak 1954 weight	and resid 15 and name HDt) and resid 63 and name HD1t) 600 1 600 peak 2124 weight 0	isid 15 and name HD4) isid 16 and name HA)) 1 700 peak 2164 weight	and name HE\$) and name HE\$) eak 2224 weight	isid 106 and name HE&)	esid 106 and name HEt)	1 700 peak 2244 weight eald 106 and name HE't } eald 78 and name HG }}	cold 106 and name HE*) cold 106 and name HB1)) 2 100 peak 2264 weight	esid 106 and name HE% } esid 17 and name HG2% 1 500 peak 2414 weight	esid 96 and name HEt) esid 86 and name HEl)} 2 200 peak 2484 weight	81d 106 and name HEV) 81d 21 and name HG11) 1 600 peak 2504 weight	me HE%) me HG)) 14 weight	esid 74 and name HEt) esid 63 and name HD2t) 2 100 peak 2574 weight	and resid 106 and name HD*) and resid 21 and name HG11) 600 2 300 peak 2614 weight	me HD&) me HG2%) 54 weight	resid 74 and name HE%) resid 78 and name HG)) 1 600 peak 2674 weight	esid 74 and name HE%) esid 78 and name HD1%) 1 600 peak 2694 weight	resid 106 and name HD%) resid 106 and name HB1 }) 1 300 peak 2754 weight	106 and name 106 and name 100 peak 2774	D " and resid 106 and name HD*) D " and resid 107 and name HE\$) 2 900 2 100 peak 2834 weight	D and resid 67 and name HEt) D and resid 73 and name HD1t) 4 000 1 500 peak 3074 weight	resid 47 and name resid 46 and name 2 200 peak 3144
(segid "BrD " (segid "BrD " 2 600 1.7	ASSI { 1904} (pegid "BYD" and r ((segid "BYD" and r 2 600 1 700	ASSI { 1954} (wegad "BrD " ((segad "BrD " 3 000 2 2	ASSI { 2124} (segid "BrD " (segid "BrD " 2.500 1.6	ASSI { 2164} { eegid "BrD " ({ eegid "BrD " 2.600 1 '	ASSI { 2224} (segid BED " and re (segid BED " and re 3 000 2 200	ASSI (2234) (eegid "BrD " and (eegid "BrD " and	2244 2244 231d *Bri	2 600 1 700 OR { 2244} (segid "BLD" and r (segid "BLD" and r	ASSI { 2264} (segid "BrD " and r (segid "BrD " and r 3 400 2 900	ASSI { 2414} { negld "BED " and l	ASSI { 2484} (segid "BID" and r (segid "BID" and r 3 000 2 200	ASSI { 2504} { segid "BrD " { segid "BrD " 2.500 1	ASSI { 2514} (segid "BFD " and re ((segid "BFD " and re 2 600 1 700	ASSI { 2574} (segid "BrD " (segid "BrD " 2 900 2	ASSI (2614) (segid "BrD " ((segid "BrD " 3 200 2	AssI { 2654} (negld "BFD " and r (negld "BFD " and r 2 000 1.000	{ 2674} segid "Br segid "Br 2 500	ASSI { 2694} (aegid "BED " and x (aegid "BED " and i 2.500 I 600	ASSI { 2754} { segid "Brb ' ({ segid "Brb ' 2 300 1.	ASSI { 2774} (ecgld "BrD " and resid (ecgld "BrD " and resid (ecgld "BrD " and resid 2 400 1.400 1	ASSI { 2834} (segid "BrD " (segid "BrD " 3 400 2	н н	ASSI { 3144} { uegyd "BrD " and { oegyd "BrD " and 3 000 2.200
1.976	4.361	3 966	3 742	1.813	1 967	4 001	4 391	3 172	1 496	2 212	7 954	1 268	1 153	1 399	4 440	3 741	5 562	7 630	2 032	4 016	2 487	1 088	0 762
7.957 ppm2	7 956 ppm2	7 958 ppm2	7 925 ppm2	7 926 ppm2	7 900 ppm2	7.899 ppm2	7 889 ppm2	7 892 ppm2	7 892 ppm2	7 956 ppm2	7 812 ppm2	7 808 ppm2	7.810 ppm2	7 806 ppm2	7 803 ppm2	7 798 ppm2	7 794 ppm2	7 791 ppm2	7 790 ppm2	7 784 ppm2	7 778 ppm2	7 780 ppm2	7 781 ppm2
.19220E+03 ppml	0 35337E+03 ppml	0 242498+03 ppml	0 17386E+03 ppm1	0 46463E+03 ppm1	21471E+03 ppm1	0 95962E+02 ppm1	0 84240E+03 ppm1	0 13020E+03 ppm1	0 23932E+02 ppm1	10782E+03 ppm1	39856E+04 ppml	19468E+03 ppm1	0 23444E+03 ppm1	0 36349E+03 ppm1	0 85611E+03 ppml	0 86322E+03 ppm1	0 16881E+03 ppm1	0 36507R+03 ppm1	0 12088E+03 ppml	0 32157E+03 ppm1	0 57448E+03 ppm1	0 30103E+03 ppm1	0 16442E+03 ppm1
0.10000E+01 volume 0.	0.10000E+01 volume 0	0 10000E+01 volume 0	0 100008+01 volume 0	0.10000E+01 volume 0	0 10000E+01 volume 0	0.10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume C	0 10000E+01 volume 0	0 10000E+01 volume 0 10782E+03	0 10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume (0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0.10000E+01 volume 0 16442E+03 ppml
2.100 peak 854 weight	celd 33 and name RA)) 1.700 peak 864 weight	cesid 32 and name HB1)) 2 000 peak 874 weight	2 200 peak 984 weight	esid 34 and name Hz // esid 102 and name HB2 // 1.600 peak 1024 weight	esid 34 and name HZ)) esid 102 and name HBl)) 2 100 peak 1144 weight	esid 34 and name HZ)) esid 98 and name HBl)) 2 200 peak 1154 weight	esid 107 and name HE*) esid 79 and name HA)} 1 300 peak 1194 weight	esid 68 and name HE%) esid 62 and name HDI)) 2.400 peak 1224 weight	esid 68 and name HE%) esid 73 and name HDE%) 1 400 peak 1314 weight	celd 32 and name HE3)) celd 33 and name HD2)) 2 300 peak 1344 weight	esid 32 and name HZ3)) esid 32 and name HE3)) 0 800 peak 1434 weight	esid 34 and name HEt } esid 102 and name HDIt} 2 100 peak 1454 weight	esid 107 and name HDt) esid 110 and name HD1t) 2 000 peak 1464 weight	esid 107 and name HD*) esid 116 and name HD1%) 1 700 peak 1474 weight	seld 107 and name HDt) seld 107 and name HA)) 1 300 peak 1494 weight	said 105 and name HDt) said 105 and name HB1 }} 1 300 peak 1524 weight	said 34 and name HEt) said 28 and name HD2)) 2,200 peak 1564 weight	eard 32 and name HZ3)) eard 95 and name HE%) 1 700 peak 1594 weight	resid 34 and hame HEt } resid 102 and name HBl }} 2.300 peak 1634 weight	resid 34 and name HEt) iresid 98 and name HBl)) 1 800 peak 1644 weight	and resid 107 and name HOF) and resid 103 and name HG2)) 100 2.100 peak 1724 weight	resid 32 and name H23)) resid 33 and name HB1)) 1 800 peak 1754 weight	resid 34 and name HE%) resid 81 and name HG2%) 2,200 peak 1764 weight
2.900 2.100 ASSI { 864}	(2 800 2 000 2 000 (984)	segid BrD and 3 000 2 200 { 1024}	segid "BrD" and segid "BrD" and 2 500 1 600 { 1144 }	segid "BrD " and segid "BrD " and 2 900 2 100 { 1154}	segid "BrD " and segid "BrD " and 3 300 2 700 { 1194}	segid "BrD " and gegid "BrD " and 2 300 1 300	uegid "BrD " and eegid "BrD " and 3 100 2 400	segid "BrD" and segid "BrD and 4 100 4 100	{ 1344} segid "BrD " and segid "BrD " and 3 200 2 600	ASS1 (1434) (1691d "BrD " and resid 32 ((segid "BrD " and resid 32 (segid "BrD " o 800 0 800	segid "BrD" and	{ 1464} eegid "BrD " and segid "BrD " and 2 800 2 000	{ 1474} segid "BrD " and segid "BrD " and 2 600 1 700	segid "BrD " and segid "BrD " and 2.300 1 300	segid "BrD " and segid "BrD " and segid "BrD " and 2 300 1 300	ASSI 1554 62	segid "BrD " and segid "BrD " and 2.600 1 700	{ 1634 } segid "BrD " and segid "BrD " and 3 200 2 600	{ 1644} segid "BrD " and segid "BrD " and 2 700 1 800	{ 1724} segid "BrD " and segid "BrD " and 2 400 2 400	{ 1754} segid "BrD " and segid "BrD " and 2.700 1 800	ASSI { 1764}

1.544	7 517	3 790	1 085	1 081	233		1 609	1 601	1 074		0 723	1 608	1 592	1 066	0.691	0 727	1.072	1 603	4 209	2000	o :
7.714 ppm2	, /81 ppm2	7 031 ppm2	7 888 T	4 029 ppm2	4 026 Amm		4.023 ppm2	3 428 ppm2	3 430 ppm2		3 430 ppm2	8 179 ppm2	7 683 ppm2	7 680 ppm2	7 690 ppm2	2 547 ppm2	2 548 ppm2	2 538 ppm2	2 548 ppm2	647	2 547 ppm2
.22356B+03	0 4855/6+03 ppml 0 27783E+03 ppml	0 96267E+02 ppm1	78224E+02 ppml	0 16527E+03 ppml	Favore CO. DECOA		16374E+03 ppml	16831E+03 ppm1	14392E+03 ppml		147428+03 ppml	0 15413E+03 ppm1		12532B+03	12585E+03 ppml	0 16395E+03 ppm1		0 13320E+03 ppm1	0 17326E+03 ppm1		0 12382E+03 ppm1
volume	0 10000E+01 volume 0 0 10000E+01 volume 0	0.10000E+01 volume 0	0.10000E+01 volume 0	0.11000E+01 volume 0			11000E+01 volume 0	0.11000E+01 volume 0	11000E+01 volume 0		0 11000E+01 volume 0	11000R+01 volume 0	volume	volume	0 11000E+01 volume 0	0.11000E+01 volume 0	volume	0 11000E+01 volume 0	0.11000E+01 volume		0 11000E+01 volume (
2.100 2.100 peak 4204 weight 0	1 600 peak 4264 weight isaid 107 and name HD*) taid 106 and name HD*) 2.000 peak 4304 weight	1914 82 and name HZ)) 2814 103 and name HA)) 2 200 peak 4324 weight	reid 107 and name HEt) beid 78 and name HB2)) 2 100 peak 4364 weight	send 201 and name HAl }} send 38 and name HGl*) 1700 peak 5 weight	" and reald 201 and name HA2)) " and reald 38 and name HO1%) " and reald 201 and name HA1)) " and reald 38 and name HA1))	1 /00 peak 15 seld 201 and name	H * and resid 201 and name HA1)) D * and resid 43 and name HB*) 1 700 1 700 peak 25 weight (esid 201 and name HB2)) esid 43 and name HB%) 1 700 peak 35 weight	H " and reald 201 and name HB2 }) D " and reald 38 and name HG1t) 1 800 1 800 peak 45 weight	esid 201 and name esid 38 and name	celd 38 and name HG2V) 1 700 peak 55 weight esid 201 and name HB1))	esid 36 and name esid 201 and name esid 43 and name	H and reard 201 and name HD2)) D and reard 43 and name HB4) 1 800 1 800 peak 75 weight	2)) 14)	2)) 24)	1) 21) 19ht	esid 200 and name HA*) esid 38 and name HGI*) I 400 peak 115 weight	2 n e	(*)	me HA*)	2 m m
2.900 ASSI { 4264} (segid "Bri (segid "Bri	2.500 1 600 ASSI (4304) (segad "BrD" and rv (segad "BrD" and rv 2 800 2 000	ASSI (4324) ((86914 "Bri (686914 "Bri 3.300	ASSI (4364) (degid "Bri (degid "Bri 3 400	ASSI { 5} ((pegld "Aci (eggld "Bri (eggld "Bri	OR (36) ((46944 "ApH" and re (46944 "ErD" and re A A A A A A A A A A A A A A A A A A	2.5U OR (15) ((9egid "Ad 9 9egid "BK 9 9egy (9egid "BK	((megad "Ad (megad "Br (megad "Br 2 600 Mega (megad mega	ASS. (8 (9.3) (8 (9.3) ASP. " and r (8 (9.3) ASP. " and r 7.60 1.70 ASS. (45)	(degid "Ac (segid "Br (2 700 "Br	(segid "Ac (segid "Br ASI	(segid "BrD " and r 2.600 1 700 OR { 55} (seepid "BrD " and r	XB. P1598) 158 1588 159 1588 159 159 150 159 150 159 150 159 150 150 150	ASSI (75) ((acgid "Ac (acgid "Ac 2 700	ASSI { 85} (segld "Ac	ASSI { 95} (segxd "Ac	ASSI [105 } (Aegid "AcH " and r (Begid "BTD " and r 2 600	ASSI { 115 } { begid "A,	ASSI { 125} (segid "A (segid "A 2,700	ASSI { 135 } (6egtd 'A (6egtd 'A (6egtd 'B (6egtd '	ASSI (145) (segid "A(segid "B)	1 2 700 1 ASSI [6] (Gegid "A
2 59 5	2 374	2 032	1 902	1.332	3 922	3 789	1 838	1.333	נונ נ	0 680	1 331	0 681	יונו נ	2.667	1.885	1 496	4 701	1 088	4 017	7 924	7 713
7 264 ppm2	7.266 ppm2	7 266 ppm2	7 266 ppm2	7 261 ppm2	7 069 ppm2	7.070 ppm2	7 070 ppm2	7 070 ppm2	7.069 ppm2	7 067 ppm2	7 021 ppm2	7 017 ppm2	7 005 ppm2	7 005 ppm2	7 005 ppm2	6 899 ppm2	6 686 ppm2	5 740 ppm2	5 589 ppm2	5 577 ppm2	S 547 ppm2
0 12400E+03 ppm1		0 12188E+03 ppml	0 13715E+03 ppm1	0 13023K+03 ppm1	0 15234E+03 ppm1	0 15995E+03 ppml	0 20703E+03 ppm1	0 67243E+03 ppml	0 65231E+02 ppm1	0 20065E+03 ppml	0 11748E+03 ppm1	0 25407£+03 ppml	0 24279E+03 ppml	0 90985E+02 ppml	0.360975+03 ppml	0 78199E+02 ppml	o 13088E+03 ppm1	0 75575E+02 ppml	0 78758E+02 ppml	0 24761E+03 ppm1	0 78719E+03 ppm1
0.10000E+01 volume		0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10060E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume
resid 82 and name HDt) resid 103 and name HG1)) 2 400 peak 3224 weight 0.	name HD%) name HB1)) 3234 weight	resid 82 and name HD*) resid 81 and name HB)) 2 300 peak 3254 weight	cord "BrD " and resid 82 and name HDP cegid "BrD " and resid 103 and name HBZ) 3 100	celd 82 and name HD4) celd 102 and name HD24) 2 400 peak 3314 weight	reard 82 and name HDt) reard 102 and name HD19 reard 82 and name HEt) 2 200 peak 3154 weight	esid 82 and name HE%) esid 103 and name HA)) 2 200 peak 3364 weight	name HEV) name HB2)) 3404 weight	esid 82 and name HE%) esid 102 and name HD2%) 1 400 peak 3424 weight	resid 82 and name HE%) resid 107 and name HD%) 2 000 peak 3444 weight	resid 82 and name HE%) resid 78 and name HD2%) 2 100 peak 3464 weight	esid 82 and name H2 }) esid 102 and name HD2*) 2 300 peak 3514 weight	and name HZ)) and name HD2%) peak 3524 weight	celd 74 and name HDF) celd 68 and name HDF) 2 000 peak 3574 weight	cents 74 and hame HUE) 2.200 peak 3654 weight	esid 59 and name HE*) 1,700 peak 3684 weight	2 100 peak 3754 weight	name HEY) name HA)) 3804 weight	cand 16 and name HG14) 2.100 peak 3944 weight	esid 53 and name HD2)) 2 100 peak 4024 weight	and name HDZ }} and name HZ }} peak 4054 weight	0eg1d "BID" and resid 34 and name HA)) segid "BID" and resid 34 and name HDb) 2 300 1.300 1.300 peak 4114 weight G

Table 3

Ambiguous NOE-derived Inter-proton Distance Restraints

3 430	7 778	4 .08	3 671	2 728			2 497		7.515	
7 738 ppm2	9 740 ppm3	e cantro	8 673 ppm2	2 mgg 1.16 1			8 612 ppm2		8 544 ppm2	
02 ppm1	03 ppm1	03 ppm1	n bbut	13 ppm1			ppm1			
0 35526E+02 ppm1	0 204176+03 ppm1	0 15089E+03 ppm1		0 176458+03 ppm1			0 12021E+02 ppml		0 12608E+03 ppml	
0.10000E+01 Volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume			0 10000E+01 volume 0 10000E+01 volume		10000E+01 volume	
									٥	
e HN)) 6 HG1)) 1 weight e HN))	e HD)) e HD)) l weight	HN HD	HN)) HA)) HA))	HB2)) HB2)) HB1)) Weight	HB2))	HB1)) HB1))	weight HN)) HB2)) HR)) HG))		HE22)) weight HN)) HD4) HD4)	HR)) HR)) HR))
and name HN)) and name KG1)) and mame H Ms)) and name H Ms))	and name and name sak 391 and name and name and name	and name and name and name and name	o and name and name and name and name	and name and name and name ak 831	and name and name and name	and name and name and name and name				and name and name and name
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	resid 106 and resid 105 and 2.400 peak resid 106 and		id 98 (id 97 (id 98 (id						8	15 25 22
id resid	d resid 106 id resid 105 2.400 g	55 55	d resid 100 d resid 98 d resid 97 d resid 98	d resid	resid 78		0.500 resid 76 resid 80 resid 75 resid 18 0.000	resid 75 resid 98 resid 98 resid 31	resid 24 2 100 p resid 21 resid 109 resid 106	resid resid resid
irb ar	"BrD" and "BrD" and 2 400 "BrD" and "BrD" and "BrD" and	rb an rb an rb an 2.700	"BrD " and 1 "BrD " and 2 "BrD " and 2 "BrD " and 2 "BrD " and 3		G G G G G G G G G G G G G G G G G G G		5 000 and 0 0 and 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D and	2.900 2.900 D and D and D and	and and
1 ()11) (eegad "BED" and readd 32 and 1 (eegad "BED" and readd 35 and 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	r { 391} (segid "BID" and rv segid "BID" and rv 3 100 2 400 (391) (segid "BID" and rv (segid "BID" and rv	991) 9egid "BrD " and r 9egid "BrD " and r 731) 8egid "BrD " and r 8egid "BrD " and r 3 300 2.700	731 8eg1d 'BrD " and r. (8eg1d 'BrD " and r. (781 8eg1d "BrD " and r. (9eg1d "BrD " and x. 781 781	### ##################################	segid BrD segid BrD segid BrD segid BrD segid BrD	agid "BD" and read of a segid "BD" and read of a segid "BD" and read of a segid "BD" and read of the a segid "BD" and read of a segid "BD" and rea	5 000 5 000 1051) segid "BrD" and 1 2 1101) segid "BrD" and 3 segid "BrD" and 5 5 500 5 500	(100) (aegid 'BrD' and reald 75 (aegid 'BrD' and reald 75 (101) (aegid 'BrD' and reald 38 (cell 'BrD' and reald 31 (1551)	### ### ### ### ### #### #### #### #### ####	segid "BID" and 1 segid "BID" and 1 [1781] segid "BID" and 1
ASSI (())	ASSI (()	OR (OR {	ASSI (ASSI (S B B C C C C C C C C C C C C C C C C C	ASSI ASSI ASSI ASSI ASSI ASSI ASSI ASSI	OR (11) (12) (13) (14) (15) (15) (15) (15) (15) (15) (15) (15) (15) (15) (15) (15) (15) (15) (15) (15) (15)		OK (15) (18e (1

2 672	3 671	2.954	3 103	2 987			6. 96 2	2 46 55	3 072
9 196 ppm2	7 763 ppm2	8 794 ppm2	8.809 ppm2	8 802 ppm2	53 t G		8 496 ppm2	9 133 ppm2	8 168 ppm2 8 574 ppm2
0,12549E+03 ppm1	0.14753E+03 ppml	0 419385+02 ppm1	0.40202E+02 ppm1	0 14859E+03 ppm1	5 54619En02 mm3	0.24821B+03 ppml	0 98690E+02 ppml	0 591398+02 ppml	0 16211E+03 ppm1
0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume		10000E+01 volume	0 100008+01 volume	0.10000E.01 volume (
2.900 2 100 peak 1781 weight in and resid 26 and name HN })	and resid 56 and name HB1)) and resid 106 and name HB2)) 700 2 200 peak 2721 weight and resid 104 and name HB)) and resid 104 and name HB)) and resid 107 and name HB)) and resid 106 and name HB))	TED " and resid 16 and name HN)) TED " and resid 13 and anne HS2)) A 100 1400 peak 1261 weight TED " and resid 16 and name HN)) TED " and resid 11 and name HB1))	1910 and resad 13 and name HN)) 1910 and resad 13 and name HO1)) 4 100 1 400 peak 3361 weight 1910 and resad 14 and name HN)) 1910 and resid 13 and name HN)) 1910 and resid 13 and name HN))	2 200 peak 3371 washt. 2 200 peak 3371 washt. 2 241 and name HN 1) 2 241 and name HR 1) 2 241 and name HR 1) 2 241 and name HR 1) 2 3 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3	and resid 14 and name HN)) and resid 11 and name HO)) and resid 14 and name HX)) and resid 16 and name HX)) and resid 102 and name HX)) and resid 102 and name HW))	cend 102 and name HN)) cend 100 and name HA)) cend 100 and name HN)) cend 100 and name HA)) cend 40 and name HA)) read 41 and name HN))	read 59 and name HN)) read 57 and name HN)) read 59 and name HN)) read 61 and name HV)) read 62 and name HV)) read 29 and name HV)) read 29 and name HV)) read 59 and name HV))	resid 55 and hame HB1)) resid 25 and hame HB)) 1.700 peak 4131 weight resid 25 and hame HB)) resid 26 and hame HB))	### ### #### #### ####################
OR (1:		ASSI {	(se	OR (333 OR (333 OR (136 (166 OR (166 (166		OR { 36' (100') 100') 100' 100	See 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		(869 (868

1 674	2.008	2 814	2 747	2.631	4 805	4 426	2 178	2.294
8 743 ppm2	8 743 ppm2	8 564 ppm2	10 051 ppm2	9 052 ppm2	8 668 ppm2 8,668 ppm2	8 668 ppm2	8 667 ppm2	8 487 ppm2
0 13119E+03 ppml	0.45211E+02 ppml	0 70210E+02 ppml	0 12911E+03 ppm1	0 86153E+02 ppm1	0 445248.02 ppml	0 10762E+03 ppm1	0 29817E+03 ppml	0.22428E+03 ppm.1
0 10000E+01 volume	0 10000E+01 volume 0	0.10000E+01 volume (0 10000E+01 volume 0		0 10000E+01 volume 0	0.10000E+01 volume 0	10000E+01 volume 0	0 10000E+01 volume 0.
and name HN)) and name HG24) peak 8381 weight and name HN)) and name HN 1)	and name HN)) and hame HB b and name HO 1) peak 6391 weight and name HO 1) and name HO 2)	and name HG1)) peak 5511 weight and name HB1))	and name HN)) and name HN)) and name HN)) eak 8751 weight and name HN)) and name HN)	and name HW }) and name HG1 }) eak 8861 weight and name HW }) and name HB1 }) and name HA })	and name HA)) and name HA)) and name HA)) and name HA)) eak 8901 weight and name HA)) end RH 891 weight	and name HW)) and name HA)) and name HA)) eak 8911 weight and name HN)) and name HN))	resid 103 and hame HW)) 24.04 peak 8941 weight) resid 103 and name HW) resid 103 and name HW)) xeeid 102 and name HG)) xeeid 112 and name HR))	ame HN }) ame HDI)) 011 weight ame HN)) ame HN))
eegid "BrD" and resid 61 segid "BrD" and resid 58 140 2 900 2 100 8381) 9991 "BrD" and resid 61 9991 "BrD" and resid 22 feegid "BrD" and resid 22	wegad "BrD" and reads 38 wegad "BrD" and reads 38 segald "BrD" and read 38 segald "BrD" and read 39 segald "BrD" and read 39 segald "BrD" and read 39 segald "BrD" and read 69 segald "BrD" and read 61	acegid 'BED' and resul 53 3 700 3 700 8511) 3 700 8014 'BED' and resul 53 8014 'BED' and resul 50 8014 'BED' and resul 50 8016 'BED' and resul 50 8017 'BED' and resul 50 8018 'BED' and resul 60	90513 11 12 12 13 13 14 15 15 15 15 15 15 15	regard Spp end resid 9 elegid 1572 2 end resid 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	891, 900 1.000 1 500 P	eegald "200" and read 103 eegald "200" and read 98 [8911] eegald "200" and read 103 eegald "200" and read 103 eegald "200" 3 100 eegald "200" and read 103	megad *RED * and resad 103 megad *RED * and resad 103 2 500 2 100 2 100 megad *RED * and resad 59 megad *RED * and resid 103 megad *RED * and resid 102	(991) (991) and resid to and n segld BD and resid to and n segld BD and resid to and n segld BD and n segld BD and n segld BD and a segld BD and segld BD and resid to and n segld BD and a segld BD an
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	5992E+03 ppml	31716+02 ppm1	0 353568+02 ppml	:700E+03 ppml	489E+03 ppm1	960E+02 ppml	0 47918E+02 ppml	1978+02 ppm1
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	0000E+01 volume	0000E+01 Volume	1000E+01 volume (000E+01 volume 0	000E+01 volume 0 :	0008+01 volume 0 42		005+01 volume 0 2
nne HN)) nne HB2)) nne HR2)) nne HN)) nne HN))	ane HN)) mn RHJ) 11 weight o 10000E+01 volume o 15992E+03 ppml mn HN)) mn HR2)) mn HR2))	me HN)) me HR)) me HR)) 11 weight 0 10000E+01 volume 0 78171E+02 ppen1 ne HR)) me HN))	HN)) Wweight 0 10000E+01 volume HN)) HN)) HN)) HO))	no MA)) Waight 0.10000E+01 volume 0 76700E+02 ppml We Mill)) We Mill) We Mill) We wight 0 10000E+01 volume 0 84076E+02 ppml	ne HE31)) ne HE31) ne HE31) ne HE31) ne HE31) 1 wesght 0 loooog.ol volume 0 244895.ol ppml ne HE31) ne HE31)	6 MC31) Weight 0 10000E+01 volume 0 42860E+02 ppml e MC34) e MC34) e MC3 1	HHE); weight 0.10000E+01 volume HH); HH); weight 0.10000E+01 volume	0.100006+01 volume
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0 10000E+01 Volume	0 10000E+01 vclume	0 10000B+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume
eak 9281 wei and name HN eak 9311 weil weil and name HN and name H	and name HBt) Deak 9341 weight and name HN) and name HN) and name HD) and name HG))	and name and name and name and name and name	and name and name and name and name and name	and name HN)) and name HN)	and beard and and and and and and	name name 9501 12me name	and name and name and name and name
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and name HN)) and name HO14) and name HP2)) and name HP2)) ewk. 501 wasght 0 10000E+01 volume 0 66316E+02 ppm1 8 574 ppm2 3 and name HP3))	and name HN)) and name HB 1) peak 3101 Weight o 10000E+01 volume 0 10416E+03 ppm1 8 573 ppm2 2 and name HB)) and name HB)) and name HB)) and name HB))	1 1 1 1 1 1 1 1 1 1	And name H2)) and name H3))	and name H011) and name H011) and name HN)) and name HN)) eak 9181 weight 0 10000F+01 volume 0 40041E+02 ppml 9 742 ppm2 2 and name HN)) and name HN))	Name HEL 10000E-01 Volume 0.15794E-02 ppm1 9.740 ppm2	name HN)) Part weight 0 10000E+01 volume 0 69670E+02 ppm1 9.464 ppm2 3 P241 weight 0 10000E+01 volume 0 69670E+02 ppm1 9.464 ppm2 3 P241 weight 0 10000E+01 volume 0 78060E+02 ppm1 9 463 ppm2 2	and name (N)) and name (N)) and name (E)) and name (E))
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	2 481		2 129	1 963		1 347	2 456		2 412				1 888		1 604					2 456		2 722	
	8 666 ppm2		8 785 ppm2	8 791 ppm2		9 106 ppm2	9 106 ppm2		Zmaa 778 7				7 996 ppm2		7 996 ppm2					7 996 ppm2		7 996 ppm2	
	0 28058E+02 ppm1		0 40626E+02 ppm1	0 579216+02 ppm1		0 50050E+02 ppm1	0 43323E+02 ppml		0 52285E+02 ppml				0 51654E+02 ppm1		0 99200E+02 ppm1					0 43395E+03 ppm1		0.60264E+03 ppml	
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and name HB1)) and name HN)) and name HG1))	and name HN)) and name HB)) peak 10081 weight 0	and name HN)) and name HB1)) and name HN))	eak 10181 weight o and name HN)) and name HB1))	and name HN)) and name HB2)) peak 10201 weight 0	and name HB%) and name HB%) and name HN))	and name Hbl); peak 10241 weight 0 and name HN)) S and name HDl%)	name HN)) name HG1 }) 0281 weight	and name HD1)) and name HD1))	name HN))	d name HN))	d name HN d name HD1	d name	and name HN)) 6 and name HG11)) peak 10381 weight 0	d name	and name HN)) and name HD24) peak 10391 weight 0	and name HN)) and name HD2%)	and name HN)) and name HG2*)	and name HN))	and name HN)) and name HG2*)	and name HN)) and name HB2)) peak 10411 weight 0	and name and name	and name HN)) and name HG1)) cak 10431 Weight	and name HN))
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ppm1			8 936		8 935	8 936 p		0. 986 88	8.584 ppm2		8 669 ppm2				8 668 ppm2		8 669 ppm2			8.669 ppm2		8.668 ppm2	
44 E504E+03 pp			ppm1 8 936		ppm1 8 935	916 8 196		ppml 8 586	ppm1 8.584		ppm1 8 669				ppm1 8 668		ppm1 8 669			ppm1 8.669		ppm1 8.668	
0 15504E+03			0 54041E+02 ppm1 8 936		volume 0 56248E+02 ppml 8 935	0 57216E-02 ppml 8 936		0.46621E+02 ppml 8 586	ppm1 8.584		0 19838E+02 ppml 8 669				0 70791E+02 ppm1 8 668		0 24267E+03 ppm1 8 669			0.24419E+02 ppml 8.669		0 99899E+02 ppm1 8.668	
and name HW)) and name HW2)) and followed to 10000E+01 volume 0 15504E+03	and name HN and name HB1	and mame Hz) and mame Hz) and name Hz) and name Hz)	name HM }) name HA }) 9631 weight 0 10000E+01 volume 0 54041E+02 ppml 8 936	and name HBI)) and name HBI)) and name HBI))	and name HN)) and name HN))	and name HN)) and name HB2)) eak 9651 weight 0 10000E+01 volume 0 57216E-02 ppml 8 936	name (NI)) name (NI)) name (NI))	9721 weight 0 10000E+01 Volume 0.46631E+02 pgml 8 586 name HN }) name HB1 })	and name HE1) and name HE1) bak 9731 weight 0 10000E+01 volume 0.59335E+02 ppml 8.584	and hame HN)) and name HOI))	and tame HN)) and chame HB2)) and chame HB2 () 10000E+01 volume 0 19838E+02 ppml 8 669	and name HB2))	and name HB1	and name	name HO2)) 9821 weight 0 10000E+01 volume 0 70791E+02 ppml 8 668	name HN name HB1	name HM)} 9831 weight 0.10000E+01 volume 0 24267E+03 ppml 8 669	and name HN)) and name HD1))	and name HN)) and name HDI })	and name NN)) and name NE1)) and hame NE1 () by weight 0 10000E+01 volume 0.24419E+02 ppml 8.669	and name HN))	name HB2)) name HB2)) 9861 weight 0.10000E+01 volume 0 99899E+02 ppml 8.668	and name HN))
name HM)) name HB2)) 9561 wajdt 0 10000E+01 volume 0 15504E+03	and resid 103 and name and resid 62 and name	name HB2 name HB2 name HN name HB1	ceald 99 and name HN }) resid 100 and name HA }) 1 600 peak 9631 weight 0 10000E+01 volume 0 54041E+02 ppml 8 936	name name	18 315	ED " and reald 303 and name HN)) FD " and reald 103 and name HB2)) 5 500 0 000 peak 9651 weight 0 10000E+01 volume 0 57216E-02 ppml 8 936	name (RI)) name (RI)) name (RI)) name (RI))	1 500 paak 9721 wasght D 10000B-01 volume 0.46631E-02 ppml 8 586 1 586 4 and hame KN) 1 1 58914 65 and hame HB) 1	name HN)) name HE1)) 9731 weight 0 10000E+01 volume 0.59333E+02 ppml 8.584	resid 21 and name resid 23 and name	HB2)) Weight 0 100008+01 volume 0 19838B+02 ppml 8 669	"BED " and reald 17 and name HN })	resid 82 and name	resid 105 and name resid 105 and name	and mamer (N)	resid 17 and name resid 11 and name	HN)) HG)) weight 0.10000E+01 volume 0.24267E+03 ppm1 8 669	пате	name	NB)) HBI)) weight 0 10000E+01 volume 0.24419E+02 ppml 8.669	and	name HW)} name HB2)} 9861 weight 0.10000E+01 volume 0 99899E+02 ppml 8.668	and name

. so	3 639	3 075	3 992	2 781	1 542	1 110	1 282	3 923	2 935	1 678	
8 572 ppm2	8 571 ppm2	8 714 ppm2	8 481 ppm2	8 480 ppm2	8 479 ppm2	8.480 ppm2	7 735 ppm2	7 734 ppm2	8 764 ppm2	6.632 ppm2	
0 57856E+02 ppml	0 17351B+03 ppml	0 28245E+03 ppml	0 56370E+02 ppml	0 429008+02 ppm1	0 60718E+02 ppm1	0 33324B+02 ppml	0 18001E+02 ppm1	0 13237E+03 ppm1	0.90637E+02 ppml	0 95713E+02 ppm1	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0 10000E+01 volume	0 100008+01 volume	0 100005+01 Volume	0 10000B+01 volume	0 10000E+01 volume	0.10000E+01 Volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	
and name HN)) and name HC2t) and name HN)) peak 10961 weight and name HN)) and name HN))	and name HN)) and name HB2)) peak 10991 weight and name HN))	and name HN)) peak 11181 weight and name HN)) and name HB2))	and name HN)) peak 11231 weight and name HN)) and name HN))	and name HD1)) and name HD1)) peak 11271 weight and name HN))	and name HG2)) and name HD1V) and name HD1V) eak 11301 Weight and name HN))	and hame HULK) and hame HN)) and name HGLW) peak 11321 weight and name HN))	and name HB1)) and name HD2*) eak 11531 weight and name HD1*) and name HD1*)	and name HN)) and name HD1%) and name HN)) and name HS)) eak 11541 weight	and name HB1)) and name HB)) and name HB)) peak 11591 weight and name HB))	and name HN)) and name HD1t) pek 11631 weight and name HN)) and name HN)) and name HN)) and name HN)	and name HB2))
"BrD " and reald 85" "BrD " and reald 83" "BrD " and reald 87" 3 800 1 600 "BrD " and reald 87"	"BrD " and reald 87 2,600 2 300 "BrD " and reald 87 "BrD " and reald 87	esid 93 2 200 esid 93 esid 93 esid 96	celd 31 celd 98 1 600 celd 31	resid 33 resid 33 1 400 resid 59	"BrD" and resid 61 "BrD" and resid 31 "BrD" and resid 10 3 600 1 700	"BYD " and resid 56" "BYD " and resid 81 "BYD " and resid 81 4 200	"BYD" and resid 33 "BYD" and resid 10 "BYD" and resid 10 4.700 0 800 "BYD" and resid 39	esid 10 esid 35 esid 35 2 100	"BrD" and resid 100 "BrD" and resid 69 "BrD" and resid 69 "BrD" and resid 66 "BrD" and resid 66	"BrD" and resud 67 3.100 and resud 63 3.100 and resud 62 "BrD" and resud 62 "BrD" and resud 68 "BrD" and resud 68	resid 68
OR [10901] (6 66914 (6	((segid (segid 3 300 OR (10991) (cegid (cegid MSSI (1118)	((megid ((megid 3 000 OR {11181} ((megid ((megid (megid (megid (megid	((segid "; 3 900 OR (11231) ((segid "; 4 s	(segid ((segid ((segid 4 100 OR (11271) ((segid	(ASSI { 11321 (8e91d (6e91d (9e91d (13131) (11321)	(Gegid ASSI (1153 (Gegid (Gegid A 700 OOR (11531) (Gegid (Gegid (Gegid	OK (1231) OK (1231) OK (1231) OK (1254) OK (1541)	(segid no s	((segal () () () () () () () () () ((segid (segid (segid (segid ASSI (1170)
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		7 974 ppm2 1 670				7 975 ppm2 1 068	,	9 80 Fpm2 5 118 6 981 Fpm2 7 109	8.006 ppm2 1 932	8.005 ppm2 1.064	7 Sie ppm2 1 905
7 984 ppm2 4	974 ppm2 4	974 ppm2 1				7 975 ppm2 1		y eau ppm. s	57791E+02 ppml 8.006 ppm2 1	8. 005 ppm2	7 516 ppm2 1
O 522878.02 ppml 7 984 ppm2 4	0 427265+03 ppml 7 974 ppm2 4	0 110845+03 ppml 7 974 ppm2 1				0 132538+03 ppml 7 975 ppm2 1		1 17 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 577918402 ppml 8.006 ppm2 1	0 94805E+02 ppml 8.005 ppm2	0.648768+02 ppml 7 516 ppm2 1
and name HB2)) and name HB 1)	and hame HN)) and hame HN)) pak 10501 weight 0.10000E+01 volume 0 42726E+03 ppm. 7 974 ppm2 4 and hame HN)) and hame HN))	and name HN)) and name HO2t) speki 10541 wasght 0 10000E+01 volume 0 11084E+03 ppm1 7 974 ppm2 1 and name HN)) and name HN))	and name and name and name	and name HV)) and name HC21) and name HX)) and name HX))	and name HD1) and name HD1) and name HD1)	and name HN 3) peak 10551 weight 0 10000E+01 volume 0 13251E+03 ppml 7 975 ppm2 1 and name HN 3) and name HO 1)	and name RN)) and name HO14) and name HO19 and name HO19 and name HO2)	and Name 1873) and name 1873) and name 1873)	and name HW)) and name HB2)) and name HB2) and name HC24) and name HC24 0 10000E+01 volume 0 57791E+02 ppml 8.006 ppm2 1 and name HM1))	and name HB2)) and name HB2)) and name HB2)) band name HB2)) band name HB2)) band name HB1) band name HB1) band name HB1) band name HB1)	And name (NA) and name (NA) peak 10901 weight 0 100006+01 volume 0.648765-02 ppml 7 516 ppml 1
H81)) Nex-2fit 0.10000E+01 volume 0 52267E+02 pgml 7 964 ppm2 4 H81)) H81))	### ### ##############################	## 55 and name HRY) 2 000 peak 10541 weight 0 10000E+01 volume 0 11084E+03 ppml 7 974 ppm2 1 2 3 000 peak 10541 weight 0 10000E+01 volume 0 11084E+03 ppml 7 974 ppm2 1 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	and name and name and name	esid 78 and name esid 25 and name esid 55 and name	OR [1051] and resid 28 and name HN)) (segid "BrD" and resid 63 and name HD1) (segid "BrD" and resid 55 and name HN)) (segid "BrD" and resid 52 and name HN) ASSI [1055]	esid 60 and name HN)) 2 100 peak 10551 weight 0 10000E+01 volume 0 13251E+03 ppml 7 975 ppm2 1 esid 80 and name HN)) eesid 81 and name HN))	reald 36 and name HOI4) reald 51 and name HOI4) reald 52 and name HOI) reald 54 and name HOI) reald 34 and name HOI)	4 400 peak 10011 Weight 0 100008401 Volume 0 214886403 ppml 3 4 800 ppml 3 5 8845 5 878 878 878 878 878 878 878 878 878	HR)) HR2)) HR4)) HCG24) Weight 0 10000E+01 volume 0 57791E+02 ppml 8.006 ppm2 1 HR))	resid 64 and name HR2)) resid 64 and name HB2)) resid 60 and name HB2)) Labo peak 10 mil name HQ14)	resid 85 and have HV)) resid 86 and name HQL)) 1 700 peak 10901 weight 0 100006:01 volume 0.648768:02 ppml 7 516 ppm2 1

7.737	2.348		1 797	5 5 5 9		2 331	2 152	4.664	4 (C)		& 88 0
8.669 ppm2	6.980 ppm2		8 980 ppm2	8 522 ppm2	8 521 pm2		8 218 ppm2	8 087 ppm2	Curve 1.00 a	831	9.187 ppm2
0 306098+02 ppm1	79191E+02 ppml		0 35919E+00 ppm1	42059E+02 ppm1	522308+02		0 16014E+03 ppml	0.287828+02 ppml	50.23001	37922E+02	o 69211E+02 ppml
0.10000E+01 volume 0	10000E+01 volume 0		10000E+01 volume 0	10000E+01 volume 0		volume	o loooob+ol volume o	0 10000E+01 volume 0	C (23) TO ABOUT	volume	ס מטוחנה סן מסוחשה ס
name HG1)) name HN)) name HD4) .2141 weight	9)))	and name HB1)) and name HB1)) and name HB1))	name HN)) name HB2)) 2261 weight 0	and name HOlt) and name HGlt) and name HOlt) and name HOl) peak 12281 weight 0)	HN)) HB1)) HB1)) HN)) Welst	HG1)) HG1)) HN)) HB)) weight	name HB1)) name HB1)) name HN)) name HG)) 2401 weight	HB1)) HB2)) HB2)) HA)) weight HA)) HA))	and name HA1)) and name HA1)) and name HA)) and name HA)) and name HA))	HN)) HA2)) HN)) HB1)) weight 0	and name HB)) and name HB2)) and name HB)) peak 12041 weight O) and name HR)) and name HR))
resid 86 resid 10 resid 96 resid 96 resid 96 resid 96 resid 96 resid 1000 res	resid 107	segid "BrD " and resid 107 segid "BrD " and resid 103 22251} segid "BrD " and resid 107 segid "BrD " and resid 107	resid 10 resid 10	rD " and resid 107 rD " and resid 25 rD " and resid 108 rD " and resid 103 4 100 1 400	resid 108		resid 108 resid 105 resid 113 resid 115 2 200	12401 1240	eegad Bach and resad lide eegad Bach and resad lide 25031 Seegad Bach and resad lide eegad Bach and resad lide eegad Bach and resad lide eegad Bach and resad Ide	d resid 114 d resid 114 d resid 92 d resid 92	(eegid "bkD and read 92 (eegid "kpD and read 91 (12841) (12841) and read 19 eegid "bkD" and read 19 12.00 pt (1281) and read 19 (eegid "bkD" and read 19 (eegid "bkD" and read 20 (12861)
((aegid "B ASSI {12141} ((aegid "B (aegid "B (aegid "B (12141) ((aegid "B	((segid "brD" and ASI (1221) (segid "brD" and ((segid "brD" and (segid "brD" and 3 700 "BrD" and 12251)				OR {12281} ((meg1d "B ((meg1d "B ((meg1d "B ASSI {12301} ((meg1d "B (meg1d "B 3 900	OR {12301} {{ segid "B {{ segid "B {{ segid "B ({ segid "B {{ segid "B {{ segid "B {{ segid "B {{ segid "B	OR (12311) ((12401) (12401) (12401) (12401) (1250) (12501) (12501) (12501) (12501)	OR (12501) OR (12501) OR (12501) OR (12501) (1 8eg1d "B (2 8eg1d "B (1 8eg1d "B (2 8eg1d "B (2 8eg1d "B		OR [1264] ((eegtd 'B ASS! [1284] ((eegtd 'B (eegtd 'B (eegtd 'B 1 00 [1284] (eegtd 'B (eegtd 'B (eegtd 'B (eegtd 'B
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2 476	2 614		2 374	2 594	3 572	4 68 8	3 411	1 594 4 936		3 641.	2 323
			8.039 ppm2 2 374								8 669 ppm2 2 323
8 306 ppm2 2	68030E+02 ppml 8 306 ppm2 2		8.039 ppm2 2	Ppm1 8 040 ppm2 2	82682E+02 ppml 8 045 ppm2 3	64947E+02 ppml 9 125 ppm2 4	472356+02 pgml 9 125 ppm2 3	9 125 ppm2 1		8 669 ppm2 3	8 669 ppm2 2
0.12326E403 ppm1 8 306 ppm2 2	volume 0 68030E+02 ppml 8 306 ppm2 2		10000E+01 volume 0 36902E+02 ppml 8.039 ppm2 2	Volume 0 95470E-02 ppm1 8 040 ppm2 2	10000E+01 volume 0 8268ZE+02 ppml 8 045 ppm2 3	Volume 0 64947E+02 ppml 9 125 ppm2 4	0 47235E+02 ppml 9 125 ppm2 3	0.60527E+02 ppml 9 125 ppm2 1		0 376275-02 ppml 8 669 ppm2 3	0 2653724-04 ppml 8 669 ppm2 2
and name HN)) pesk 1701 weight o 100005.01 volume 0.123265.03 ppml 8 306 ppm2 2 and name HB2)) and name HB2))		and name	and name NG)) peak 11751 weight 0 10000E+01 volume 0 16902E+02 ppml 8.019 ppm2 2 and name NN)) and name NN ()) and name NN ()		HRB))	HOI)) HA)) HA)) HA)) HA)) HA)) HA))	and name HR))	and name HD74) peak 12011 weight 0 10000E+01 volume 0.60527E+02 ppml 9 125 ppm2 1 and name HR7) and name HR7) and name HR7) and name HR) peak 12021 weight 0 10000E+01 volume 0 46966E+02 ppml 9 124 ppm2 4	and name HN and name HN and name HA and name HA and name HA	and name HEZ); eak 12071 weight 0 10000E+01 volume 0 37827E+02 ppm1 8 669 ppm2 3 and name HEZ)} and name HEZ)} and name HEZ)}	and name H81) and name H81)
name HN)) name HG) 1. 2. 1. 2. 1. 2. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	and resid 69 and name HE)) and resid 66 and name HE)) 600 1 700 pank 11711 weight 0.10000E+01 volume 0 68030E+02 ppml 8 306 ppm2 2 And resid 63 and name HE))	resid 69 and name resid 73 and name resid 70 and name	2314 73 and name NG)) 1 300 pask 11751 weight 0 10000E+01 volume 0 36902E+02 ppml 8.039 ppm2 2 2 stat 70 and name NN)) 8 4 and name NN))	Treat 70 and name HBI 1) Z and peak 11761 weight 0 100006+01 Volume 0 954706+02 prol 8 040 ppm2 2 Z sould 79 and name HBI 1)	restd 11 and name HB2)) resid 73 and name HB1)) 1 and name HB1) 1 and name HB1) 1 and name HB1) 2 and name HB1) 2 and name HB1) 3 and name HB1) 4 and name HB1) 5 and name HB1) 6 045 ppm2 3	75 and name HG1)) 22 and name HH)) 22 and name HH)) 23 and name HM)) 75 and name HH))	resid 72 and name HA)) resid 96 and name HR)) resid 000 med have HR)) 1 soo peak 11941 weight 0 10000E+01 volume 0 47235E+02 ppml 9 125 ppml 3 resid 23 and name HR)) resid 24 and name HO))	HED" and recent 23 and names H781) 1 600 1 700 peak 12011 weight 0 10000E+01 volume 0.60527E+02 ppml 9 125 ppm2 1 1 810 and rest 23 and name HR)) 1 810 and rest 23 and name HR)) 1 810 and rest 39 and name HR)) 1 810 and rest 39 and name HR)) 1 810 and rest 39 and name HR)) 1 810 and rest 39 and name HR)) 1 810 and rest 39 and name HR))	and reald 23 and name and reald 98 and name and reald 100 and name and reald 33 and name and reald 44 and name	and name HEZ); eak 12071 weight 0 10000E+01 volume 0 37827E+02 ppm1 8 669 ppm2 3 and name HEZ)} and name HEZ)} and name HEZ)}	xeed 100 peak 12104 weight 0 10000E+01 volume 0 265378+04 ppml 8 669 ppm2 2 2 500 peak 12104 weight 0 10000E+01 volume 0 265378+04 ppml 8 669 ppm2 2 2 500 peak 12104 mid name HID 1) readd 100 and name HIM)) readd 100 and name HIM)) 1 400 peak 12114 weight 0.10000E+01 volume 0 37921E+02 ppml 8.669 ppm2 1 xeald 100 and name HIM))

1.666	6,981	2 333	2.786	4.447	1 816 3 908	3,635
2 66 ppmc	8 565 ppm2 9 463 ppm2	9 473 ppm2	8 377 ppm2 8 980 ppm2	, 9.742 ppm2	7 763 ppm2	9.156 ppm2
ne 0 17809E403 ppm1	ne 0.813048+02 ppm1	0 68908E+02	re O 144596+02 ppml e O 122718+02 ppml	ne o 206798+02 ppml	ne O 79648B+U2 ppml ne O 92105B+U2 ppml	ne 0 49406E+02 ppml me 0 12711E+02 ppml
• • • • • • • • • • • • • • • • • • •	0 10000E+01 volume 0 10000E+01 volume	0 10000E+01 Volume	0.10000E+01 volume	0 100006+01 Volume	o 10000E+01 volume o 10000E+01 volume	0 10000E+01 volume
HN 1) HB2 1) HB2 1) HB2 1) HB1 1) HB1 1) HB1 1) HB1 1) HB1 1) HB1 1)	and hame HD24) peak 13201 weight and name HG2)) and name HG2)) and name HD24) and name HD24) peak name HD)	and name HN)) and name HD*) and name HR)) peak 12691 weight and name HN)) and name HN)) and name HN))	Well HB1	2 22 g 22 22	g, ; ; ; ; ;	and name HN)) and name HN)) 5 and name HB)) 1 peak 14151 weight 2 and name HB2)) 2 and name HB2)) 6 and name HB2)) 12 and name HB2)) 13 and name HB2)) 14 and name HB2)) 15 and name HB2)) 15 and name HB2))
ind and resid 60	Paro and resud 65 "BrD " and resud 65 "BrD " and resud 62 "BrD " and resud 60 "BrD " and resud 64 "BrD " and resud 84	segad 'BaD' and resid 63 segad 'BaD' and resid 63 (13691) segad 'BaD' and resid 22 segad 'BaD' and resid 21 segad 'BaD' and resid 21 segad 'BaD' and resid 21	BED and restd 22 BED and restd 114 BED and restd 114 BED and restd 114 BED and restd 114 BED and restd 107 BED and restd 107 BED and restd 107 BED and restd 107	OR (1404) (1 segal TBD) and restd 107 and name HN (1 segal TBD) and restd 21 and name HN (1 segal TBD) and restd 10 and name HD (1 segal TBD) and restd 107 and name HN (1 segal TBD) and restd 107 and name HN (1 segal TBD) and restd 106 and name HN (1 segal TBD) and restd 106 and name HN (1 segal TBD) and restd 39 and name HN (1 segal TBD) and restd 39 and name HN (1 segal TBD) and restd 39 and name HN (1 segal TBD) and restd 39 and name HN (1 segal TBD) and restd 39 and name HN (1 segal TBD) and restd 39 and name HN (1 segal TBD) and restd 39 and name HN (1 segal TBD) and restd 39 and name HN (1 segal TBD) and restd 39 and name HN (1 segal TBD) and restd 39 and name HN (1 segal TBD) and restd 30 and name HN (1	(18944 "17) And rests 124 (18944 "17) and rests 104 (18944 "17) and rests 104 (18944 "17) and rests 101 (18944 "17) and rests 101 (18944 "17) and rests 103 (18944 "17) and rests 103	eald 17 eald 18 eald 10
((cegaid ") OR ((cegaid ") OR ((cegaid ") ASS ((132)) (cegaid ")	(segid OR (13201) (segid OR (13201) (segid (segid ASSI (13631) (segid (segid (segid (segid	OR (15631) (aegid 16631)	ASST [1397] (18914) (18914) (18914) (18914) (18914) (18914) (18914) (18914)	OR (14061) ((#891d (#891d (#891d (#891d (#891d (#891d (#891d) #881d (#891d (#891d) #881d (#891d	((
						. سر
2 471 1.623 1.646		1 514 3 467	7 520	3 0 0 9 0 3	80 90 70	2.336
8 147 ppm2 9 119 ppm2 9 120 ppm2		9 119 ppm2	9 119 ppm2	9 196 ppm2	8 564 ppm2	8 565 ppm2
0 43415B+02 ppml 0.65898B+02 ppml		0 505328+02 ppml	0 54095B+02 ppml	0 100608+03 ppm1	0 10295E+03 ppm1	0 613648+02 ppm1
0.10000E.01 volume		0 10000E+01 volume 0 10000E+01 volume	0 10000E+01 volume	0 10050E+01 Volume 0 10050E+03	0 10000E+01 volume	0 100008.01 volume
name HN)) 2861 weight name HN)) name HB)) name HB)) name HB)) name HO1)) name HO1) name HO1) 291 weight name HO1)	(G12) (G12) (G24) (G24) (G24) (G24) (G14)	(e.1ght N)) (D2*) (B2)) (e.1ght N)) (G1))	HB1)) HB1)) HB)) HB) HB) HB) HB)) HB)) HB)) HB))	1N)) 48%) 48%) 48.30 1N)) 1B2)) 482)) 482))	HG)) HB)) HB)) HB))	name HN)) name HB1)) name HB1)) name HB1)) name HB1)) name HG)) name HG)) name HG)) name HG)) name HM)) name HM))
and and beak 1 peak 1	and name	peak 12: and ne and ne peak 12: and ne peak 12: and ne	and and peak 1:	and peak 1. and and and and and and and peak 1.	and and and and and peak 1	Δ.
PED and resh d so and resh d so and resh d so d	OR (12956.) ((degyd brt) and read 23 and hame is (degyd brt) and read 21 and name is (degyd brt) and read 21 and name is (degyd brt) and read 21 and name is (degyd brt) and read 21 and name is (degyd brt) and read 22 and name is (degyd brt) and read 23 and name is (degyd brt) and read 25 and name is (degyd brt) and read 25 and name is (degyd brt) and read 25 and name is (degyd brt) and read 25 and name is (degyd brt) and read 25 and name is (degyd brt) and read 25 and name is (degyd brt) and read 25 and name is (degyd brt) and read 25 and name is (degyd brt) and read 25 and name is (degyd brt) and read 25 and name is (degyd brt) and name is (d	1 600 1814 23 1814 63 1814 10 2 100 1814 23 1814 23	BED and read 98 and BED and read 92 and BED and read 23 and BED and read 24 and	esid 26 an 2 000 peak 2 000 peak esid 25 an esid 25 an esid 55 an esid 56 an 1.700 peak	Then and resid 59 Then and resid 57 Then and resid 102 Then and resid 60 Then and resid 60 Then and resid 60 Then and resid 60 Then and resid 50	(engold 'BTD' and reald 60 and (engold 'BTD' and reald 61 and (engold 'BTD' and reald 61 and (engold 'BTD' and reald 62 and (engold 'BTD' and reald 63 and (engold 'BTD' and reald 64 and (engold 'BTD' and reald 65 and (engold 'BTD' and reald 64 and (engold 'BTD' and reald 65 and (engold 'BTD' and '

14161} segid "BrD " and resid 102 and name HN))					5.000 5.000 OR {14461}	0.500	peak 14461 weight	0.10000E+01 volume	0.12633E+02 ppm1	9.657 ppm2	0 743
reald 105 and name reald 101 and name 1 200 peak 14171 reald 101 and name resid 34 and name	0 10000E+01 volume 0 29353	0 29353E+02 ppml	8 513 ppm2	7 761	(eegid 'BrD " and A881 (1481) (eegid 'BrD " and	r res	and name HO21) 12 01 and name HC21) 13 02 and name HE) 1 900 peak 14511 weight 1 3 and name HE)	0 10000E+01 volume	0 865138+02 ppml	8 680 ppm2	7 621
and name beak 14201 and name and name	0 10000E+01 volume 0 38990E+02	E+02 ppml	8.667 ppm2	3 092	ASSI [4553] (seegid "BrD" and (seegid "BrD" and (seegid "BrD" and A 100 ON [4450] (seegid "BrD" and (seegid "BrD" and (seegid "BrD" and	reald 72 reald 73 1 400 reald 72	er er	0.10000E+01 volume	0 40514E+02 ppml	2 mdd 858 8	4 801
	10000E+01 volume 0	E+02 ppml	8,669 ppm2		OR [1452] (eegtd "BrD" and 3 (eegtd "BrD" and 3 (eegtd "BrD" and 4 (eegtd "BrD" and 4	resid 72 resid 11 resid 66 resid 67 1 100	and name and name and name and name eak 14631	0 10000E+01 volume	0.25627E+02 ppml	8.762 ppm2	4 '678
600 peak 14541 weight 199 and name HU1)) 19 and name HII)) 19 and name HII)) 19 and name HII)) 11 and name HII))	100008+01 volume o	14325E+02 ppml		2 202	((eegtd 'BYD' and x (eegtd 'BYD' and x 4 200 C 14641) (eegtd 'BYD' and x 4 200 C 14641) (eegtd 'BYD' and x 4 200 C 14641)	resid 66 resid 66 resid 60 resid 62 1 300 resid 65	A NA NA N	0 10000E+01 volume	0 429356+02 ppml	8 568 ppm2	8.968
o out peak 14251 weight sead 86 and name HG2)) sead 86 and name HG2)) sead 32 and name HH2)) sead 32 and name HH2))	0 100002:01 Volume 0 30896.	30696E+01 ppml 66237E+02 ppml	8 934 ppm2 9 125 ppm2	0 748 7 750	8egid (1465) 8egid 8egid 4.200 (1465) 9egid	##id 62 ##id 65 ##id 65 1 300 ##id 60	H KHR KHR	0.10000E+01 volume	0 33097E+02 ppm1	8 566 ppm2	7 569
sold 98 and name HN)) sold 34 and name HE*) sold 75 and name HN)) sold 65 and name HN)) sold 65 and name HN))		:			ASST [14751] (segtd "BED" and (segtd "BED" and 2 800 OR [44751] (seegid "BED" and (seegid "BED" and	reald 62 reald 64 2 000 reald 62 reald 60	name name 4751 name	0 10000E+01 volume	0 39545E+03 ppml	8 998 ppm2	8 576
99 and name HBW) 900 peak 14301 weight 96 and name HGZ)) 77 and name HGZ) 73 and name HGZ) 73 and name HDIN)	0 10000E+D1 volume 0 649401	0 84940E+02 ppm1	7 977 ppm2	2 199	Ass. [4791] (eegtd "BrD" and 3	resid 38 resid 37 resid 61 resid 54 resid 51 resid 51	and name HW)) and name HG2)) peak 14791 weight and name HE*) and name HE*)	0 10000E+01 volume	0.52365E+02 ppm1	8 742 ppm2	2 547
and name and name and name and name					OR [4470] (1 segid "BED" and	cenid 61 cenid 63 cenid 63 resid 63 1 100 cenid 63	and name HN)) and name HB2)) and name HN)) peak 14801 weight and name HN))	0 10000E+01 volume	0 24650E+02 ppm1	8 570 ppm2	9 470
1810 and resid 90 and name H0 19 1810 and resid 91 and name H0 19 1810 and resid 93 and name H0 19	0 10000E+01 volume 0 19968E+02	3+02 ppm1	9 658 ppm2	3 046	ASSI (4801) ((segad 'BrD' and (segad 'BrD' and 3 500 3 200 OR (1402) ((segad 'BrD' and (segad 'BrD' and ASSI (1490)	resid 59 resid 55 1 900 resid 31 resid 32	name name 4821 name	0 10000E+01 volume	0 84273E+02 ppm1	8 498 ppm2	7 974
resid 87 and name MO1)) resid 83 and name HN)) resid 80 and name HU)) 0.000 peak 14451 weight resid 80 and name HN))	0 10000E+01 volume 0 45437E	0 45437E+00 ppml	9 658 ppm2	2 374	(seeptd "BtD" and x (seeptd "BtD" and x 4 400 4 400 OR (44901) (seeptd "BtD" and x (seeptd "BtD" and x (seeptd "BtD" and x (seeptd "BtD" and x	esid 55 esid 55 1 100 esid 54 cesid 37	and name HN)) and name HB1)) peak 14001 weight and name HB1)) and name HB1))	0.10000E+01 volume	0 25948E+02 ppml	9 035 ppm2	2 965
and name and name				£	(aegid "BID " and r 4 000 OR {14921}	1 500	and name HG1t) peak 14921 weight	0.100000E+01 volume 0.46525E+02	,46525E+02 ppml	9 037 ppm2	1 081

	4 955	277 2	4 477	3 667	4 502	2 779	1 994	3,645	1 903	3 306	2 475	1 962	1 424
	11 082 ppm2	11 082 ppm2	3 373 ppm2	1 057 ppm2	1 546 ppm2	2 289 ppm2	2 291 ppm2	2 190 pm2	2 190 ppm2	1 057 ppm2	1 058 ppm2	1 057 ppm2	4 854 ppm2
	0.15339E+02 ppml	0 36353E+02 ppm1	0 13207E+03 ppml	0 16386E+03 ppm1	0 11879E+03 ppml	0.12050E+03 ppml	0 785286+02 ppml	0,30669E+03 ppml	12780E+03 ppm1	0 23427E+03 ppml	0,18258 B +03 ppml	0 173605+03 ppml	0 77701E+02 ppm1
	10000E+01 volume	0.10000E+01 volume 0	0 10000E+01 volume 0	0.10000E+01 volume 0	0 10000E+01 volume 0	0.10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	10000E+01 volume 0	0 10000E+01 volume 0	0 100008+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0
and name HB2))	and name HB1)) peak 15581 weight 0 and name HE1)) and name HA))	and name HE1)) and name HD1)) peak 15621 Weight 0, and name HE1))	MB2)) HA)) Weight HB2)) HA)	name HD11) 5972 weight name HD14) name HB2)	and name HD11) and name HA)) eak 6172 weight and name HG12) and name HA)	and name HB*) and name HB*) peak 6592 weight 0. and name HB*) and name HB*)	and name HB1) peak 6622 weight 0 and name HB1)	and name HB\$) and name HB2)) peak 6812 weight o and name HB\$) and name HB1)	and name HBt) and name HB2)) eak 6822 weight 0 and name HBt)	name HG1t) name HG1t) 7132 weight name HG1t)	name HGI\$) name HB2)) 7142 weight name HGI\$)	name HO11) name HB2 }) 7152 weight name HG11)	and name HB)) and name HD2t) peak 7222 weight 0 and name HB))
resid 15 resid 32	esid 30 0 700 esid 32	esid 32 1 300 2 300	regid bil and resus 94 (f 862) (segid "BrD" and resud 95 (segid "BrD" and resud 95 2 900 2 100 p 8 82) (segid "BrD" and resud 65 (segid "BrD" and resud 65	resid 18 2 000 resid 18	2.200 2.200 2.200 2.200	segld "BPD" and resid 31 segld "BPD" and resid 35 3 000 5 2 200 65924 segld "BPD" and resid 31 6622 and resid 33	resid 56 2 300 resid 31	6812 and resid 99 eggld "BrD" and resid 95 2 500 1.600 1 600 6812 eggld "BrD" and resid 99 eggld "BrD" and resid 92 eggld "BrD" and resid 82 eggld "BrD" and resid 82	segic "BrD" and resid 99 and segic "BrD" and resid 103 and 2.000 2.100 peak 6822 and resid 99 and resid 99 and	irD and resid os irD and resid 38 1700 1.700 irD and resid 81 irD and resid 81		esid 81 2 000 2 000 caid 81	BrD " and resid 17 2.600 2 300 BrD " and resid 14
((segid "BrD " and ASSI {15581} ((segid "BrD " and	(segid "BID" and r 4.800 4.800 OR {15581} (segid "BID" and r (segid "BID" and r	ASSI (15621) ((segid "B ((segid "B (segid "B 4 200 OR (15621) ((segid "B	ASSI (segid "B (segi	ASS1 (5972) (segid "B (segid "B 2 800 OR (5972) (segid "B (segid "B ASS1 (6172)	(segid "B (segid "B 3.000 OR { 6172} (segid "B (segid "B (segid "B	(segid "B (segid "B 3 000 OR (6592) (segid "B (segid "B			ASS1 (6622) (86914 "B (86914 "B 2.900 OR (6822) (86914 "B	ASSI (ASSI (7142) (segid "B (segid "B (segid "B 2 800 OR (7142) (segid "B (segid "B	ASSI (152) (8eg1d "B	ASSI (() OR (
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	1 110	2 642	1 073	1.601	7 752	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 147	1.642		7 656	1 430	3.823	3.641
	9 004 ppm2	8 562 ppm2	7 735 ppm2	12 275 ppm2	8 166 ppm2	9 133 ppm2	8 660 ppm2	9 077 ppm2		8 669 pp m2	8 791 ppm2	8 809 ppm2	8 809 ppm2
	20319E+01 ppml	11615E+03 ppml	0 12753E+02 ppml	0 50580B+02 ppm1.	0 33692E+02 ppm1	22185E+02 ppm1	0 78760E+02 ppm1	0 29441E+02 ppm1		0 167998+02 ppm1	14734E+02 ppm1	0 11598E+02 ppml	0 11421E+02 ppm1
	10000E+01 volume 0	0 10000E+01 volume 0 1	0 10000E+01 volume 0 1	0 10000E+01 volume 0 5	0 10000E+01 volume 0 3	0 10000E+01 volume 0 2	0 10000E+01 volume 0 7	0 10000E+01 volume 0 2		0 10000E+01 volume 0 1	0 10000E+01 volume 0 1	0 10000E+01 volume 0 1	0 10000E+01 volume 0 1
and name HN)) and name HG1*)	name name 4931 name	name HG1%) name HN)) name HB)) 5021 weight	and name HN)) and name HB2)) and name HN)) peak 15091 weight 0 and name HN))	and name HG11) and name HG21) and name HG21) eak 15181 weight and name HG11)	name HN)) 5221 weight name HN)) name HN)) name HN))	and name HN)) and name HBt) peak 15331 weight 0 and name HN))	name HN)) 5141 weight	HN)) HG12)) Weight	and name HD11) and name HG21) and name HG21)	and name HU%) and name HE%) and name HE%) and name HE%)	weight HN)) HG2%)	name HD1) name HB1) 5491 we.ght name HB1)	and name HN)) and name HB2)) peak 15501 weight of
"BrD " and resid 54 "BrD " and resid 38	resid 52 resid 50 0 000 resid 52	rD " and resid 81 rD " and resid 50 rD " and resid 49 2 900 2 100	resid 46 resid 44 resid 35 resid 35 resid 33 resid 33	BrD " and resid 81 BrD " and resid 30 BrD " and resid 10 3.400 1 600 BrD " and resid 30	and 28 1 300 1 300 1 300	1 000 1 1 000 1 1 000 1 1 000 1 1 000 1 1 000 1 1 000 1 1 0 000 1 1 0 000 1 1 0	1 800 1 1 800 1 1 800 24	seld 20 seld 18 1 200	181d 63 181d 18 151d 21	resid 15 resid 17 resid 10 resid 16	4 800 0 700 rb and resid 16 rb and resid 16 rb and resid 16 rb and resid 16	TD and restd 14 TD and restd 15 S 000 0 500 TD and restd 13 TD and restd 13 TD and restd 13	esid 14 esid 15 0 400 esid 13
((segid "B (segid "B ASSI (14931)	Beg1d Beg1d 5 500 5 4931 seg1d	(segid "BrD " and ASSI {15021} ((segrd "BrD " and ((segrd "BrD " and 3.400 0 2.900 0R {15021}	((segtd BED) and ((segtd BED) and ((segtd BED) and ((segtd BED) and (segtd BED) and (segtd BED) and (seegtd BED) and	(eegad "BKD" and ASSI [15181] ((eegad "BKD" and (eegad "BKD" and 3 900 3 900 (eegad "BKD" and	ASSI (15221) ((destad "BYD" and ze (destad "BYD" and ze 4 200 CR (18221) ((destad "BYD" and ze (destad "BYD") and ze (destad "BYD" and ze (destad "BYD" and ze (destad "BYD" and ze (destad "BYD") and ze (destad "BYD"	ASSI (15331) ((segad "BYD" and (segad "BYD" and 4 500 OR (15331) ((segad "BYD" and (segad "BYD" and (segad "BYD" and	ASSI (1894) (1894) (1894) (1894) (1894) and (1894) and (1894) and (1894) (1894) (1894) (1894) and (1894) and	((segad "BFD " and re (segad "BFD " and re	(segid "BrD" and re	(segld "BrD" and 4 700	0.8 (15461) (1 seg1d "BYD" and (1 seg1d "BYD") and (1 se	ASSI (1542) (1 segad "BID (1 segad "BID (2 segad "BID (2 segad "BID (3 segad "BID (1 segad "BID)	ASSI {15501} ({ segid "E ({ segid "E (segid "E 5 100 OR (15501)

1 321	1,627	1 324	0.772	1 068	1 083	4.972	2 345	2 2 29 8 3 7 5 2 9 8	586 t
1 547 ppm2	1 994 ppm2	1 600 ppm2	1 596 ppm2	1 205 ppm2	2 585 ppm2	3 422 ppm2	3 621 ppm2	2 860 ppm2	2.684 ppm2
0.26563E+03 ppml	o 311398+02 ppml	0 28598E+03 ppm1	0 27968E+02 ppml	0 36076E+03 ppm1	0.33897E+02 ppml	0 9744E+02 ppml	0 17926E+02 ppml	0 10808E+03 ppml	0 196615+03 ppm1
0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume 0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume 0 10000E+01 volume	0.10000E+01 volume
and name HD1%) eak 8712 weight and name HD1%)	and name HG12) and name HB2) and name HB2) eak 8962 weight and name HB1) and name HB1)	and name HB2 1) and name HD24) and name HD24) peak 9112 weight and name HG28) and name HG28	and name HG2%) and name HD1%) peak 9142 weight and name HG2%) and name HG2%) and name HG1%	peak 9192 weight and name HD14) and name HB2)) and name HG1) and name HG2) and name HG3 beak 9662 weight	and name HG11)) and name HG11)) and name HG11) and name HG11) and name HG12) and name HG12)	and name HG1)) peak 10092 weight and name HG1)) and name HG1))	and name HB1 }) and name HG1 }) peak 10162 weight and name HB1 }) and name HG1 }) and name HG1 })	peak 10302 weight and name HB1) and name HB2)) and name HB2)) and name HB1) peak 10412 weight	and name HA)) and name HB1)) and name HB1) and name HB1) peak 10502 weight and name HB1)) and name HB1)) and name HB1)) and name HB1))
segid "BrD" and resid 102 and 2.600 1.700 peak 8712) segid "BrD" and resid 56 and segid "BrD" and resid 102 and	segid 'BrD' and resid 116 segid 'BrD' and resid 115 egid 'BrD' and resid 25 egid 'BrD' and resid 25 3 700 3 400 1 800 segid 'BrD' and resid 25 segid 'BrD' and resid 25 segid 'BrD' and resid 101 segid 'BrD' and resid 102	Second "BPD" and resud 56 [911] PD" and resud 27 [912] PD" and resud 102 [912] PD" and resud 102 [913] PD" and resud 102 [913] PD" and resud 103	1945/1 1945/1 1946/1 19	1 600 "BrD " and "BrD " and "BrD " and "BrD " and	OR (60914 PED and reeld 79 (109914 PED and reeld 116 (10002) (Assi {10092} { (eggld "BFD" and reald 35 { (eggld "BFD" and reald 32 { (eggld "BFD" and reald 32 { (eggld "BFD" and reald 35 { (eggld "BFD" and reald 35 { (eggld "BFD" and reald 31 { (eggld "BFD" and reald "BFD" and re	(degrd 'BrD' and resid ST (degrd 'BrD' and resid 80 (4.100	(1 magad and read of a solution of the solutio	(BED) and resid (BED) and resi
(segid 2.600 OR { 8712} (segid (segid	OR (8712) (16 6914) (18 6914) (18 6914) (18 6914) (18 6914) (18 6914) (18 6914) (18 6914) (18 6914) (18 6914) (18 6914) (18 6914)		ASSI (9142) (8691d (OR { 9192 } (8eg.d 6 966	OR { 9662} ((9991d m) ((9991d m) (9991d	ASSI (10092) ((segid " (segid ") 100 OR (10092) ((segid ") ((segid ") (segid ") (segid ") ASSI (10182)	((segid (segid (segid (segid (segid (segid (segid (segid	(segid (segi	((eeg1d '(eeg1d ') '(eeg1d
									سيته
	1 377	2 314	1 817	2 564	2 660	2 310	4 626	4 629	1 635
	4 654 ppm2	4 605 ppm2	4 557 ppm2	3 325 ppm2	5 296 ppm2	1 401 ppm2	0 414 ppm2	1 645 ppm2	1 254 ppm2
	0.48661E+02 ppml	0 251318+02 ppm1	0 51959E+02 ppml	5998E+02 ppm1	0.30661E+02 ppml	72542E+03 ppml	0 19700E+03 ppml	24926E+03 ppm1	0,654428+03 ppm1
	0 10000E+01 volume 0.			volume o		•		Volume 0	
	10000E+	10000E+0	10000E+01	10000B+01	10000E+01 vclume	10000E+01	10000E+01	10000E+01	100005+01
and name HD1%) and name HB)) and name HG1))	name HB) 7232 weight 7232 weight name HD24) name HG24) name HD14) 7262 weight	and name HG2t) and name HG2t) and name HG2t) and name HG)) and rame HG)) ack 7352 weight 0 10000E+01 volume ach 7352 weight 1)		8052 weight 0 name HB1)) name HB1)) name HB1)) name HB1))	and name [HA]) ak 8122 weight 0 ak 8122 weight 0 and name [HA]) and name HB2]) and name HB2])	and name (HQ1)) sak 6212 weight 0 10000E+01 volume and name (HQ2) and name (HQ2) and name (HQ2)	name name name name	name HD1%) 6542 weight 0 name HD1%) name HD1%) name HA)) name HA))	name name name 8662 name name
esid 14 and name esid 17 and name	name HB) name HD11 7232 weight name HD21 name HG21 name HG21 name HG11	Ceesad 17 and name HG24) Cesad 110 and name HG24) Cesad 15 and name HG 1 700 peak 7352 weight Cesad 15 and name HG Tesad 15 and name HB Tesad 14 and name HB	name HA)) name HG1*) 7742 weight name HA)) name HB2)) name HB1))	2 200 peaks 8052 waght 0 ceald 77 and name HB1)) ceald 54 and name HB1)) ceald 77 and name HB1)) ceald 77 and name HB1))	and name [HA]) ak 8122 weight 0 ak 8122 weight 0 and name [HA]) and name HB2]) and name HB2])	resid 109 and name HOI)) resid 109 and name HBI)) 1 200 peak 8212 weight resid 14 and name HO2*) resid 18 and name HO2*) resid 18 and name HO2*)	and hame HA)) peak 6492 weight and hame HD2t) and name HA)) and name HA))	name HD1%) name HB2)) 8542 weight 0 name HD1%) name HA1%)	and resid 22 and name (DI1) and resid 61 and name (BA)) and resid 52 and name (DI2) and resid 56 and name (DI2)

080 ppm2 0 791	:	662 ppm2 1 590		0.415 ppm2 2 481		795 ppm2 4		254 ppm2 2			535 ppm2 2	0.00	}	402 ppm2 4		092 ppm2 1.540		4 609 ppm2		4 459 ppm2		4 462 ppm2 3		
46826E+02 ppm1 3	:	21424E+03 ppm1 0		0 14748E+02 ppml 0.		0,16152E+03 ppml 1		1 24679E+03 ppm1 1			0 34655E+03 ppml 2		+ The Thurst Co.	0 20695E+03 ppm1 1		0 97985E+02 ppml 2		0 37938E+02 ppml 4		0.29812E+02 ppm1 4		0 812698+02 ppm1		
0 10000E+01 volume 0		0.10000E+01 volume 0		0.10000E+01 volume 0		0 10000E+01 volume 0		0 10000E+01 volume 0			0 10000E+01 volume 0	-	O TOROGE+O1 Volume	0 10000E+01 volume		0.10000E+01 volume		0 10000E+01 volume		0.10000E+01 volume		0 10000E+01 volume		
d 38 and name HG2%) 000 peak 13242 weight	46 and name 50 and name	isid 78 and name HD2%) isid 21 and name HG2%) 1 800 peak 13322 weight	resid 78 and name HD24)	resid 18 and name HD2%) resid 14 and name HB1)) 1 300 peak 13352 weight	and name	resid 28 and name HA)) 2 000 peak 13392 waight	and name	resid 56 and name HD2%) resid 59 and name HB2)) 1 700 peak 13592 weight	and name	and name	and name and name peak 13602	resid 54 and name HE*) resid 56 and name HG !) resid 63 and name HD2*) resid 19 and name HB1))	peak 13762 and name and name	14 and name 14 and name 00 peak 13952	14 and name 69 and name	resid 76 and name HB#) resid 73 and name HDI#) 2.400 peak 14042 weight	resid 76 and name HBt)	81d 15 and name HA }} 81d 63 and name HD2*} 1 900 peak 14162 weight	resid 60 and name HB2 }) resid 63 and name HD2t)	resid 62 and name HA)) resid 68 and name HB2)) 1 800 peak 14192 weight	resid 95 and name HA)) resid 89 and name HB2))	1d 95 and name HA)) 1d 98 and name HB2)) 2.300 peak 14202 weight	and name	and name HD2*)
segid "BrD " and resid 3 500 3 100 2 0	13242} segid "BrD " and resi segid "BrD " and resi	BrD " and re "BrD " and re 1800	OR {13322} { segid "BrD " and residence to the contract of the	pegid "BrD " and segid "BrD " and 4 200 4 200	OK (13352) (segid "BrD " and resi ((segid "BrD " and resi ASSI (13392)	segid "BrD " and resi segid "BrD " and resi 2 800 2 000 2	(segid "BrD " and resi ((segid "BrD " and resi ASSI {13592}	segid "BrD " and segid "BrD " and 2 600 1 700	OR (13592) (segid "BrD " and resi (segid "BrD " and resi OR (13592)	(segid "BrD " and result (segid "BrD " and result ASSI (13602)	(segid "BrD " and ress ({ segid "BrD " and ress 2 500 1 600 1	{ segid "BrD" and res { segid "BrD" and res ASSI {13762} (segid "BrD" and res: (segid "BrD" and res:	2 300 1 300 (13762) (13762) (18934 "BrD " and residual re	2 2	OR {13952} (segid "BED " and res ((segid "BED " and res ASSI {14042}	(segid "BrD " and res (segid "BrD " and res 3 100 2 400	(segid "BrD " and res	ASSI (14162) (faegid "BrD " and resid (faegid "BrD " and resid 3 600 1 9	14162} segid "BrD " and res segid "BrD " and res	ASSI {14192} ((segid "BrD " and res ((segid "BrD " and res 3.700 3 400	OR {14192} ({ segid "BrD " and res ({ segid "BrD " and res	551 {14202} ((segid "BrD " and resid 95 (segid "BrD " and resid 98 3,200 2 600 2.300 pv	OR {14202} ({ segid "BrD " and resid 62 (segid "BrD " and xesid 68	1 (14312) segid "BrD " and res
4 278		2 646					i		1 660		1 591	2 033		4 450		1 645		3.513		1 414			2.569	-
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0 44566E+02 ppml 4 656 ppm2 4		0 71093E+02 ppm1 4 755 ppm2 2				200 T	מ ליסיס בריב ביינים ביי		0 12259E+03 ppml 2,487 ppm2 1		0 38701E+02 ppml 3.866 ppm2 1 591	0 318388+03 ppml 4 951 ppm2 2 033		0 36612E+02 ppm1 0.760 ppm2 4		0 19213E+03 ppml 1 848 ppm2 1 645		0 562328+02 ppm1 1.056 ppm2 3.513		O 10372E+O3 ppm1 4.656 ppm2 1 414			0 102198+03 ppml 3 177 ppm2	
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0 10000E+01 volume 0 44566E+02 ppml 4 656 ppm2 4	and name (IA.)) and name (IA.))	and name HB1)) and name HB1)) peak 10902 waight 0 100006+01 volume 0 710938+02 ppml 4 755 ppm2 2	name HB1)) name HB1)	anner HB2)) anner HB2)) hanner HB2)) hanner HB3))		and name (HE2.)) and name (HD1.)	cak lists weight to louduk-tol volume o wiswar-voz pļani. Altar ppms. and name HTM2;)	and name High	peak 11652 weight 0 10000E+01 volume 0 1289SF+01 ppm1 2.487 ppm2 1 and name HB2))	and have KDI; and have KA)	peak 12162 weight 0 10000E-01 volume 0 38701E-02 ppm1 1.666 ppm2 1 591 and name HA.)	and name HA)) and name HC2)) peak 12172 weight 0.10000E+01 volume 0 31535E+03 ppml 4 951 ppm2 2 033	and hame MA)) and name MO1))	and name HG2)) and name HG2)) paak 12302 weight 0 10000E+01 volume 0 36612E+02 pgml 0.760 ppm2 4 and name HG2))	and hame (A))) and hame HEt)	and names HOI's) pand and names HOI's) pand names HOI's)	and name HD14) and name HD14)	and name HB2)) posk 122 weight 0 100005*01 volume 0 562328+02 ppml 1.056 ppm2 1.513 and name 40111	and name HOl }) and name HA))	. and name HGG34) peak: 1272 weight 0 10000E+01 volume 0 10372E+03 ppml 4.656 ppm2 1 414	and name	and bud	and name kev) and name kev) 217 ppm2 pack 1385 with 0.100005+01 volume 0 102198+03 ppm1 3 177 ppm2 and name KHOL))	and name HB2 }}
volume 0 44566E+02 ppml 4 656 ppm2 4	"BrD " and ree "BrD " and ree	BED" and resuld 10 and name HEL) 1 BED" and resuld 11 and name HEL) 1 2 600 2 100 peak 10902 weight 0 10000E+01 volume 0 71093E+02 ppm1 4 755 ppm2 2	"BrD " and resid 70 and name HBl)) "BrD " and resid 75 and name HBk)	BrD - and reach 93 and name (BB 2)) BrD - and reach 97 and name (BB 1) BrD - and reach 90 and name (BB 1))	ламе ИВ1)) мене ИВ1)) мане ИВ1)		2 100 peak 11552 weight to louduk-oi volume o wiswsk-oiz pjant wirsk pyma t week remain (100 sand name HERS))	ment in and name Hazi	peak 11652 weight 0 10000E+01 volume 0 1289SF+01 ppm1 2.487 ppm2 1 and name HB2))	systd 22 and hamme ND11) and d and mamme NA)) and 21 and namme NA))	3 200 1.900 peak 12162 weight 0 100008-01 Volume 0 387018-02 ppml 1.866 ppm2 1 591 3rD: and resid 18 and name (RA.)	503.d ac main mane An)	isld 39 and name HQL))	PBTD * and resid 86 and name HG2) } *B.D * and resid 8 and name *H.) } *B.D * and resid 8 and name *H.) } *B.D * and resid 9 and name *H.) } **A.D	and name	estd 22 and name HD1%; 1 goo peak 12ame HD1%; estd 59 and name HW 51;	'BrD " and reald 63 and name HD1%) BrD " and reald 18 and name HD1%)	reard 68 and name HB2)) 2 100 peak 12722 weight 0 100006+01 volume 0 562326+02 ppm1 1.056 ppm2 3.513	Bry and resid 75 and name HG1 }) Bry and resid 72 and name HA))	cold 116 and name 46234) 2 200 peak: 1272 weight 0 10000E+01 volume 0 10372E+03 ppml 4.656 ppm2 1 414	and name	seid 116 and name	Feb. 4.0 and name http://www.read.do.noooE+01 volume 0 10219E+03 ppml 3 177 ppml 2.200 ppml 1386 volume 0.1000E+01 volume 0 10219E+03 ppml 3 177 ppml xead.d 6.2 and name http://www.read.do.noone.gov.noone.g	reeld 63 and name

(wegld "BFD" and reeald 38 and name HG14) ASST [12202]	and name ak 15382 and name	(1 degid 'BDP' and resid 74 and name HB1)) ((degid 'BDP') and resid 62 and name HB2)) ((degid 'BDP') and resid 62 and name HB2)) ((degid 'BDP') and resid 103 and name HB3)) ((degid 'BDP') and resid 64 and name HB2)) ((degid 'BDP') and resid 65 and name HB2)) ((degid 'BDP') and resid 65 and name HB2)) ((degid 'BDP) and resid 62 and name HB2)) ((degid 'BDP) and resid 62 and name HB2)) ((degid 'BDP) and resid 62 and name HB2)) ((degid 'BDP) and resid 62 and name HB2)) ((degid 'BDP) and resid 62 and name HB2)) ((degid 'BDP) and resid 62 and name HB2)) ((degid 'BDP) and resid 62 and name HB2))	resid 10 resid 21	resid 82 and name resid 103 and name 2 000 peak 15562 resid 82 and name resid 106 and name resid 106 and name resid 110 and name 0 000 peak 15572	When and resaid 107 and name. When and resaid 110 and name. When and resaid 17 and name. When and resaid 15 and name. When and resaid 15 and name. When and resaid 15 and name. When 2 00 2 200 pask 15828. When 2 200 pask 15828.	(1 eggid *ErD * and resid 107 and name HB1)) ASS [4572] (2 eggid *ErD * and resid 107 and name HB2)) (3 eggid *ErD * and resid 60 and name HB2)) (4 eggid *ErD * and resid 60 and name HB2)) (5 eggid *ErD * and resid 60 and name HB2)) (6 eggid *ErD * and resid 60 and name HB2)) (7 eggid *ErD * and resid 81 and name HB2)) (8 eggid *ErD * and resid 82 and name HB2)) (8 eggid *ErD * and resid 83 and name HB2)) (8 eggid *ErD * and resid 63 and name HB2)) (8 eggid *ErD * and resid 64 and name HB2)) (9 eggid *ErD * and resid 64 and name HB2)) (1 eggid *ErD * and resid 64 and name HB2)) (1 eggid *ErD * and resid 64 and name HB2)) (2 eggid *ErD * and resid 64 and name HB2)) (3 eggid *ErD * and resid 64 and name HB2))
ASST ASST (COR (1 154 ppm2 1 387 (1	1 057 ppm2 1 327 (1) A655.0 3.067 ppm2 1 320 (2) (4) (5) (6) (7) (7) (8) (7) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	045 ppm2 2 186 05	1 498 ppm2 2 151 ASS OR 2 1 559 ppm2 4 639 ASS	1 696 ppm2 4.461 OR OR OR S 6 541 ppm2 1 076 OR OR	1.058 ppm2 2 565 AS: AS: 0.08 1.058 ppm2 2 326 AS: AS: 1.058 ppm2 2 326 AS: AS: AS: AS: AS: AS: AS: AS:
me HB)) we HB24) me HB24) me HB24) me HB2)) me HB2)) me HB2)) so HB1)) so HB1)) 12 wasght 0 100005401 volume 0 19246E+03 ppml	me HQ 1) me HQ 1) me HQ 1) me HD 11 c2 weight 0.10000E+01 volume 0 69267E+03 ppm1 me HD 11) me HD 11)	nm HD11) Ox weight 0 10000E+01 volume 0 42578E+02 ppm1 nm HD11) nm HA)) nm HD11)	HB1)) HB1)) HB1)) HB1) HB1)) Weight (10000E+01 volume HB12) HB1)) HB1))	4653 weight 0 100006+01 volume 0 692466+03 ppml mame MC24) name MC24) name MC24) name MC24) name MC24) name HC24) name HC24) name HC24) name HC24) name HC24)	and name HB)) peak 14602 velght 0 10000E+01 Volume 0 19481E+03 ppm1 and name HB2)) and name HB2)) and name HB2)) peak 14652 velght 0 10000E+01 Volume 0 25126E+02 ppm1 peak 14652 velght 0 .10000E+01 Volume 0 25126E+02 ppm1 and name HBA))	and name H21) and name H22) and name H22) and name H21) beat name H21) and name H21) beat weight 0 10000E.01 volume 0 44935E.02 ppm1
((wegid 'BFD' and reeld 21 and hame box (44312) and reeld 22 and hame box (44312) and reeld 22 and hame box (44312) and reeld 22 and hame box (44312) and reeld 25 and hame box (44312) and reeld 26 and hame box (44312) and reeld 26 and hame box (44312) and reeld 26 and hame box (44312) and reald 31 and hame box (44312) and reald 31 and hame box (44312) and hame bo	(95914 '810' and feeld 21 and name (95914 '810' and resid 102 and name (95914' 810') and resid 102 and name (95914' 810' and resid 116 and name (95914' 810' and resid 116 and name (95914' 810' and resid 110 and name (95914' 810' and resid 115 and name ASSI (14602)	(9914 957 914 524 115 and name H 9914 957 91 91 91 91 91 91 91 91 91 91 91 91 91		1 300 peak 1 Esid 63 and esid 63 and esid 22 and 1 700 peak 1 resid 22 and	egodd '8rD' and resuld 86 (1992) and resuld 81 (1992) 2 700 1 800 1.800 (1992) and resuld 103 (1992) and resuld 103 (1992) and resuld 1993 and result 1993 and	4.851 [4647] (14647)

1 824		1 612	1 262	4 686	2,564	7.926	7 803	7 720	987 7	4,664
3 668 ppm2		3.668 ppm2	4 804 ppm2	5.544 ppm2	5 544 ppm2	0 859 ppm2	0 859 ppm2	2.783 ppm2	-0 176 ppm2	3 227 ppm2
0 42104E+02 ppm1		0 28702E+02 ppml	0 18200E+02 ppm1	0 57702E+02 ppm1	0 19574E+02 ppml	0 54467E+01 ppml	0 18980E+02 ppm1	0.51743E+02 ppm1	0.44678E+02 ppml	.69853E+02 ppm1
10000E+01 volume 0		0.10000E+01 volume 0	0 10000E+01 volume 0	0 16606E+01 volume 0	0.160005+01 volume 0	0 100008+01 volume 0	0.10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	0 10060E+01 volume 0.69653E+02 ppml
11d 105 and name HB1)) 11d 105 and name HB2)) 11d 106 and name HB2)) 12 000 peak 17132 waydit 0	5 and name HB2)) 6 and name HB2) 7 and name HB2) 7 and name HB2) 8 and name HB2) 8 and name HB2)	reight (182)) (G24) (G24) (G24) (G24) (G24)	name HG2t) 7272 weight name HA)) name HA)) name HA)) name HA))	HA)) HD24) HA)) Weight	and name HA)) and name HA)) and name HA) peak 17522 weight 0. and name HA)) and name HA)	(G1)) (E3)) (e1ght (G1)) (Z)) (G1))	HZ3)) Weight HG1)) HE*) HG1)) HG2)) HG2))	and name HG1)) and name HE1) and name HD1)) peak 17892 weight 0 and name HD1)) and name HD1)) and name HD2))	and name HB2)) and name H23)) bak 17972 weight and name HB2))	and name HG2)) and name HB2)) eak 18022 weight
0000		1.800 1.800 10.800 10.800 10.800 10.800 11.800	esid 110 pe 1 500 pe 1 500 pe 1 500 pe 1 300 pe	5 9 3 4 63 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	resid 34 resid 34 resid 54 1 500 resid 34	SSI (1768.2) ((megid "BFD" and Yeard 33 ((megid "BFD" and Yeard 32 4 900 0 600 pp ((1768.2) ((megid "BFD" and Yeard 33 ((megid "BFD" and Yeard 33 ((megid "BFD" and Yeard 33 ((megid "BFD" and Yeard 34 ((megid "BFD" and Yeard 34 ((megid "BFD" and Yeard 34	esid 32 1 500 esid 33 esid 33 esid 33	eggid "BrD" and resad 33 eggid "BrD" and resid 34 (17892) (eggid "BrD" and resid 34 eggid "BrD" and resid 34 3 do 2 900 2 100 pp (17892) (eggid "BrD" and resid 34 (eggid "BrD" and resid 34 (eggid "BrD" and resid 35	esid 33	aegid "BrD " and resid 59 aegid "BrD " and resid 60 3 200 2 600 2.300 p
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1 433	1 645		1 401	3 891	4.804	4 AOB	4. 3.95	7 896	7.754	1 624
S 148 ppm2	3 668 ppm2	3 542 ppm4	3 522 ppm2	4 409 ppm2	3.132 ppm2	4 004 ppm2	3 620 ppm2	3 670 ppm2	3 366 ppm2	3 721 ppm2
106E+02 ppm1	193E+02 ppml	2//4U5+U2 Ppml 11543E+O3 ppml	0 13106E+03 ppm1	0 24633E+02 ppml	0 16756E+02 ppml	0 28094E+02 ppm1	0 73175E+02 ppml	680E+03 ppml	46090E+02 ppml	791E+02 ppm1
1 ume 0 304	olume 0 372	olume 0 27						olume 0.10	volume 0 46	olume 0 47
0 10000E+01 Volume	0 10000E+01 Volume 0 37293E+02 ppml	0 10000E+01 Volume 0 2/740E+02 ppm1	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 100008+01 volume	0 10000E+01 volume	0 100008+01 volume 0.10680E+01 ppm1	0 10000E+01 v	0 10000E+01 volume 0 47791E+02 ppml
HG2%) Welght HA)) HD2%)		and name HB2)) and name HB2)) and name HB1) and name HB1) and name HB1) and hame HB1)	and name HE21) and name HE21) and name HE21) and name HE21) and name HG21) and name HG21) and name HG11) pask 16372 weight	and name HB1)) and name HB14) and name HA)) and name H81)) peak 16482 weight	6 and name HB1)) and name HB2)) and name HA)) peak 16572 weight and name HB2)) and name HB2))	and name HB1)) peak 16582 weight and name HB1)) and name HB1)) and name HB1))	name HB1 name HA 6782 wen name HB1 name HB1	and hame HB1)) 7 and hame HB1) Peak 16852 weight 7 and hame HB1)) 7 and name HB1))	and name HB2)) peak 17112 weight and name HB2)) and name HB2)) and name HB2)) and name HB2)	and name HD: / and name HBI }) and name HGI*) sk 17122 weight
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3 400 and rb and rb and rb and rb and rb and	(eagid 'BrD' and resid OR [16172] (eagid 'BrD' and resid (eagid 'BrD' and resid (aegid 'BrD' and resid (eegid 'BrD' and resid (eegid 'BrD' and resid (eegid 'BrD' and resid	0R [16182] (1 eegid "EED" and r (2 eegid "EED" and r ASSI [15182] (1 eegid "EED" and r (2 eegid "EED" and r (3 eegid "BED" and r 3 eegid "BED" and r 0 (5 eegid "BED" and r	(eegold 'BrD' and resuld (eegold 'BrD' and resuld (eegold 'BrD' and resuld (eegold 'BrD' and resuld (16272) (eegold 'BrD' and resuld (eegold 'BrD' and resuld (eegold 'BrD' and resuld (eegold 'BrD' and resuld	(189214 "BED" and re	ASSI (16572) ASSI (16572) ((segid "BYD" and r (segid "BYD" and r (16572) ((segid "BYD" and r (16572) ((segid "BYD" and r (segid "BYD" and r (segid "BYD" and r A NSSI (16572)	(seegid "brD" and (seegid "brD" and 3 800 3 600 (6 6914 "BrD" and	ASSI [1672] (68914 "BED" and	ASSI [1682] (aegid "BYD" and (aegid "BYD" and 3 000 2 200 OR [1682] (segid "BYD" and (segid "BYD" and Segid "BYD" and	((segld "BYD" and x 1 500 "BYD" and x 2 500 "BYD" and x (segld "BYD" and x	BrD * and BrD * and BrD * and
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	2 635 ppm2		2.635 ppmz			2 635 ppm2		2 636 ppm2			2 931 ppmz		4.508 ppm2		1.697 ppm2		2 289 ppm2		2.289 ppm2		2 289 ppm2		2.486 ppm2		2.583 ppm2	
	58075E+02 ppm1		54622E+02 ppm1			20227E+03 ppm1		0 30880E+02 ppm1			84483E+02 ppm1		30551E+03 ppm1		0 92899E+01 ppml		33671E+02 ppml		0 60076E+02 ppm1		0 34186E+02 ppml		0.27108E+02 ppm1		0.22158E+02 ppm1	
	10000E+01 volume 0		0.10000E+01 volume 0			10000E+01 volume 0		0 10000E+01 volume 0			10000E+01 volume 0		0.10000E+01 volume 0		0 10000E+01 volume 0		0.10000E+01 volume 0		0.10000E+01 volume 0		10000E+01 volume		0.10000E+01 volume 0.		0.10060E+01 volume 0.	
	and name HE%) and name HG12)) eak 18822 weight 0	and name HE%) and name HG2%)	ght (*)	and name HEV) and name HG12})	and name HE% } and name HG12}}	and name HE%) and name HB2)} peak 18912 weight 0	and name	E*) [G11]) erght	and name HE%) and name HB))	and name HE's) and name HBI))	and name HB1)) and name HD1)) peak 18962 weight 0	and name and name	and name HA)) and name HB2)) ak 19022 weight	and name and name	and name HBY) and name HB1)) ak 19222 weight	and name and name	and name HB%) and name HB1)) peak 19332 weight 0.	and name and name	and name HB%) and name HBl)) ak 19342 Weight	and name	and name HB%) and name HA)) ak 19402 weight 0	and name HBV) and name HA))	and name HB2)) and name HA)) ak 19452 weight	and name HB2 }) and name HA })	and name HB1)) and name HA)) peak 19462 weight 0.	and name HB1 }} and name HA }} and name HA }}
	(segid "BrD " and resid 75 and name HE ((segid "BrD " and resid 116 and name HG 3 300 2.700 2 200 peek 18822 we	"BrD " and resid 75	# (18832) # # # # # # # # # # # # # # # # # # #	"BrD " and resid 75	resid 75	BrD " and resid 75 BrD " and resid 14 1 800 1 800	R {18912} (segid "BrD " and resid 75 (segid "BrD " and resid 115 GRT {18840}	(segid "BrD " and resid 75 and name H (segid "BrD " and resid 21 and name H 3 700 3.400 1 800 peak 18942 w 1 1942 x	"BrD " and resid 75	sand 75	segid "BrD " and resid 57 segid "BrD " and resid 37 3 100 2.400 Z 400 p	"BrD " and resid 37 "BrD " and resid 37	((segid "BrD " and resid 75 ((segid "BrD " and resid 78 2.500 1 600 1 600 pe OR {19022}	Begid "BrD " and resid 75 Begid "BrD " and resid 18 [1922]	(segid "BrD " and resid 43 ((segid "BrD " and resid 42 4 500 4.500 1 000 pc OR [19222]	segid "BrD " and resid 43 segid "BrD " and resid 44 (19332)	BrD " and resid 31 BrD " and resid 26 3 200 1 900	(segid "BrD " and reald 31 (segid "BrD " and reald 21 (19342)	(segid "BrD " and resid 31 ((segid "BrD " and resid 56 3.300 2 700 2 200 pg OR (19342)	segid "BrD " and resid 31 (19402)	(segid "BrD " and resid 31 ((segid "BrD " and resid 29 3 600 3 200 1 900 pe	'BrD " and resid 31	1 (13452) 6 egid "BtD" and reeld 73 6 egid "BtD" and reeld 72 3 800 3.600 1.700 p	BrD " and resid 73	esid 73 ssid 72 1 600	19462) (segid "BrD " and resid 73 (segid "BrD " and resid 69 (19472) segid "BrD " and resid 99
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					3 597			631	•		3 003		2 841	:	2 361		2 312		2 118		Ş			4 383		7 552
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					0.48637E+02 ppml 3 226 ppm2 3			0 44998E+02 ppm1 2 782 ppm2 4			10000F+01 volume 0 33097E+02 ppml 2 782 ppm2 3		10000E+01 volume 0 316D6E+04 ppml 2 781 ppm2 2		2 782 ppm2 2		54118E+03 ppml 2 782 ppm2 2		0.16595£+03 ppml 2 780 ppm2 2			t 7 mdd cco 7 mdd cosso cs 7		0 13873E+62 ppml 2.633 ppm2 4		2 634 ppm2 7
	name HG2 name HA	name HG1 name HB2	and hame HG2)) and name HB)) and name HB))	NG)) HG2)) HB1))	weight 0 10000E+01 volume 0.48637E+02 ppml 3 226 ppm2 3 HGI)	name	name name	HER4). WHH2). 10000E+01 volume 0 44998E+02 nom1 2 782 nom2 4	HEA)	HE +)	weight 0 100008+01 volume 0 33097E+02 ppml 2 782 ppm2 3 8ER.)	na 7.7 HB 7.1 HB 7.1	weight 0 100008+01 volume 0 316068+04 ppml 2 781 ppm2 2 1HEY)	HES)	2 782 ppml 2 784 ppml 2 784 ppml 2 784 ppml 2 785 ppml	HE*)	weight 0 10000E+01 volume 0 54116E+01 ppm1 2 782 ppm2 2 HER)).	пате пате		E8)	HER)	1 (12) 1 1 1 1 1 1 1 1 1	() () () () () () () () () ()	weight 0.10000E+01 volume 0 13873E+02 ppml 2.633 ppm2 4	ine 7.	Mekk 18593 weight G 100006:401 volume G 161656:402 ppml 2 634 ppm2 and name HDt)
	and resid 75 and name HG2 and resid 72 and name HA	resid 59 and name HG1 resid 60 and name HB2	and resid 59 and hame HG2 and resid 58 and name HB and resid 59 and name HG1	resid 75 and hame HG2))	2 100 peak 18032 weight 0 10000E+01 volume 0.48637E+02 ppml 3 226 ppm2 3 resid 59 and name HG1))	74 and name 59 and name	cend 74 and name estd 59 and name	0814 35 and name HEN) sead 60 and name HEN) 2 000 pank 18522 exacts 0 10000E+01 volume 0 4499Es-02 nom1 2 782 nom2 4	readd 35 and name HEt)	ebid 35 and name HEt)	peak 1832 weight 0 10000F+01 volume 0 33097E+02 ppm1 2 782 ppm2 3 and name HE!)	and 35 and name HB1)	<pre>peak 18342 weight 0 100000E+01 volume 0 31606E+04 ppm1 2 781 ppm2 2 and name HEY) and name HEY)</pre>	bid 35 and name HE\$) bid 57 and name HE\$)	I cou peak issue weign: U loudobeul Volume U 531728+03 ppml 2 782 ppm2 2 2 main ame WE main weight main weight	esid 35 and name HEt)	1.300 peak 18402 weight 0 10000E+01 volume 0 54118E+01 ppml 2 782 ppm2 2 resid 35 and name HEP)	esid 35 and name	and name KEN) and name ALS (2000 Per 1) peak 1842 8491 0 .10000E+01 volume 0 .16595E+03 psml 2 780 psm2 2	onad 35 and name HEY)	Sead 75 and name HRF) sead 71 and name HR)	and promised the second of the	and the and name HEV)	00 peak 18552 weight 0.10000E+01 volume 0.13873E+02 ppml 2.633 ppml 4.75 and name HEV)	and name NEV)	1.900 peak 1899 weight 0 100008+01 volume 0 383858+02 ppml 2 634 ppm2 7 resid 75 and name HEW }

COSICIAL CEECO

4.564	1 425	2 149	1 222	999	2 352	2 320	1 997	1 319	1 710
1 994 ppm2	1.995 ppm2	4 853 ppm2	4 853 ppm2	1 747 ppm2	1 747 ppm2	4 656 ppm2	2.832 ppm2	4 656 ppm2	4 656 ppm2
0.29578E+02 ppml	0.21357E+03 ppm1	0 54504E+02 ppml	0 12632E+02 ppm1	0 69704E+03 ppml	0 34655E+03 ppm1	. 0 47335E+03 ppm1	. 0 871778+02 ppm.1	, 0 25940E+02 ppml	. 0 56651E+02 ppm1
0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	: 0 10000E+01 volume
113 and name HB%)	113 and name HBt) 114 and name HBt) 125 14 and name HDt 125 15 and name HBt 126 113 and name HBt) 126 113 and name HBt)	and name and name eak 20182 and name	7.7 and name HB)) 1.09 and name HB2)) 7.7 and name HD14) 10.10 peak 20202 weight 7.7 and name HB)) 1.00 and name HB))	7.7 and name HG2%) 6.0 peak 20222 weight 7.7 and name HG2%) 6.09 and name HA))	117 and name HG2%) 120 and name HB1)) 117 and name HB2%) 110 and name HB1)) 600 peak 20262 weight	and name and name and name peak 20322 and name	and name and name and name and name eak 20632 and name and name	1112 and name (BV) 1111 and name (BV) 1115 and name (BV) 1115 and name (BV) 110 peak 2062 weight 1102 and name (B2k) 1102 and name (B2k) 1115 and name (B2k)	and hame and hame and name and name and name and name and name peak 20662 and name and name and name
3 400 1 ("BrD" and resid" BrD" and resid		1 "BrD " and "BrD " and "BrD " and 2 900 "BrD " and "BrD " and	((eegid "HTD" and readd 177 (eegid "BTD" and readd 109 (eegid "BTD" and readd 217 (eegid "BTD" and readd 217	ISI (2022) (#8914 "BFD " and reald 17 (#8914 "BFD " and reald 14 (#8914 "BFD " and reald 19 (#8914 "BFD " and reald 17 (#8914 "BFD " and reald 19	"BrD " and resid "BrD " and resid "BrD " and resid "BrD " and resid	100008) (organ 4FD' and reald 17 (organ 4FD' and reald 21 (organ 4FD' and reald 20 (organ 4FD' and reald 20 (organ 4FD' and reald 20 2 300 2 300 2 200 (organ 8FD' and reald 20	1 "BYD " and resud 1 "BYD " and resud	PBYD and resid BYD and resid BYD and resid BYD and resid BYD and resid BYD and resid BYD and resid	"BED" and resid "BED" and resid "BED" and resid "BED" and resid "BED" and resid "BED" and resid
3.700 OR {20122} (segid " ((segid "	ASSI (2015) (segric (2 700) OR (20152) (segric (segric (8 8 6 9 10)) OR (20152)	(segid (segid (segid (segid) 3 401 OR (20182) (segid (segid (segid	(segac (segac (segac (segac (segac (segac (segac (segac (segac (segac)	ASSI (20222) (pegid " (fegid " 2 200 OR (20222) (segid " (segid "	OR {20222} (segid "E (segid "E ASSI {20262} (segid "E (segid "E	OR (20062) ((seeptd " (seeptd " (seeptd" (se	OR (2005) (Regard 'B)
									-
2 359	1 946	3 988 E	4 924	e17 T	2 133	4 598 2 662	2 304	2 2 3 6 9 13 5	
2.190 ppm2	2 092 ppm2	2 190 ppm2	4 261 ppm2	4 261 ppm2	4 903 ppm2	4 903 ppm2	1 991 ppm2	1.990 ppm2	414
6208+03 ppm1	21948E+04 ppml	22 ppm1	ppm1	pmı	T w				
6 2	0 21948	0 62693E+02 ppm1	0.13941E+02 ppml	0 22737E+03 ppml	0,36454B+02 ppml	0 55010E+02 ppml	0 18667E+03 ppml	0.22660E+02 ppml	0.82911E+02 ppm1
0 10000E+01 volume 0 42620E+03 ppml	0 10000E+01 volume 0 21948	0 10000E+01 volume 0 62693E+6	0 100008+01 Volume 0.13841E+02	0 100005+01 volume 0 22737E+03 p	0 100006+01 volume 0.364546+02 pp	0 10000E+01 volume 0 55010E+02 ppml	d 10000E+01 Volume O 18667E+03 ppml	0 100008+01 volume 0.226608+02 ppml	
and name HBI)) eak 19472 weight and name HB%)	and name HB1)) and name HB2) pak 1955 weight 0 10000E+01 volume 0 and name HB4) and name HB4)	and name HB*) and name HB*) and name HB*) peak 19712 weight 0 100005+01 volume 0 and name HB*	and name Fel /) and anne Ha /) and anne Ha /) bek l9862 weight 0 100008+01 Volume and name HB /) and name HB /) and name HB /)	and name HDM) and name HDM) and name HDM) and name HBM) and name HBM) and name HBM)	0 10000E+01 volume	0 10000E+01 volume	finame (Hs) /	# Tanner #18) 20012 weight 0 10000E+01 Volume Anner #18)	nd name HB4) nd name HB2)) nd name HD1) k 20062 weight nd name HD1) nd name HD1) nd name HD1) nd name HB4)
HB1)) weight HB%)	resid 103 and name HBB)) resid 76 and name HBB)) resid 76 and name HBB)) 7 3700 peak 1952 weight 0 10000E+01 volume 0 resid 76 and name HBW) resid 116 and name HBW)	reald 76 and name HBP) reald 51 and name HBP) 2.200 peak 19712 weight 0 10000E+01 volume 0 2.200 peak 19712 weight 0 10000E+01 volume 0 reald 99 and name HBP)	95 and name He! // 105 and name HA // 106 and name HA // 107 and name HA // 108 and name HA // 108 and name HB // 108 and name HB // 108 and name HB // 108 and name HR //	and name HDM) and name HDM) and name HDM) and name HBM) and name HBM) and name HBM)	0 10000E+01 volume	and name HA)) and 1992 weight 0 10000E+01 volume and name HA)) and anne HA)) and name HB) and name HB) eak 19972 weight 0.10000E+01 volume	finame (Hs) /	nd name HB1) k 20012 weight 0 100006+01 volume c and name HB4) dd name HB4) nd name HB4) nd name HB4) k 20022 weight 0 100006+01 volume	"BED" and reald 113 and name HR 1) "BED" and reald 110 and name HR 1) "BED" and reald 111 and name HR 1) "BED" and reald 111 and name HR 1) "BED" and reald 111 and name HR 1)

OGELOSIA OREGOS

	2 572		2.366																					
	4 459 ppm2		1 894 ppm2		2 980 ppm2		1 795 ppm2		1 796 ppm2			4 163 ppm2		0 760 ррт2			1 056 ppm2		1 056 ppm2			1.056 ppm2	i	Tudd aso T
	43944E+02 ppml		98918E+02 ppm1		33579E+01 ppml		60830E+02 ppm1		23532E+03 ppml			0.37412E+02 ppm1		0 11144E+03 ppm1			78059E+02 ppml		0.93082E+02 ppm1			0.25206E+02 ppml		associated that
	0 10000E+01 volume 0		0 10000E+01 volume 0		100008+01 volume 0		10000E+01 volume 0		10000E+01 volume 0			10000B+01 volume 0		10000E+01 volume			10000E+01 volume 0		10000E+01 volume			10000E+01 volume		
and name	and name HA)) and name HEt) eak 21152 weight	and name HA })	and name HG2%) and name HG1)) ak 21222 weight	and name HG2%) and name HB1))	and name HB)) 2 and name HB1%) peak 21382 weight o	and name and name	and name HG1%) and name HB4) peak 21432 weight 0	and name HG1%)	resid 25 and name HG1%) resid 105 and name HB1)) 1 700 peak 21442 weight 0	and name HGI*)	and name HG1*) 6 and name HB2 })	and name and name ak 21502	and name and name	and name and name ak 21552	and name	and name HG 1) and name HG 1)	ak 21572 and name	and name	and name HA)) peak 21592 weight 0 and name HG14)	and name	and name	peak 21612 and name	and name	and name HGI%)
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and hame HA)) and name HG11))	HA)) NGG J) NGG J NGG J) NGG J) NGG J) NGG J) NGG J) NGG J NGG J) NGG J NGG J) NGG J) NGG J) NGG J) NGG J NGG J) NGG J NGG J) NGG J NGG J) NGG J NGG J) NGG J NGG J) NGG J NGG J NGG J) NGG J NGG J NGG J) NGG J NGG J NG	(A. 1) (D. 1)	RA))		name (15. 1) mme (15. 2)	hamme iv. /) h		0 looooE+01 volume 0 l8983E+03 ppml 4 656 ppm2 1 547	HA	Ail of the mark of 10000E+01 volume 0 98567E+02 ppml 1 648 ppm2 7 517 and name HOZ1!	and the MODE of th	and name REF) and name REZ v and name REZ v	sak 20022 weight 0 10000E+D1 volume 0 60271E+O2 ppm1 1 650 ppm2 7 791 and name HG2≹)	and name HUV) and name HUX)	aak 20042 weight o 100008+01 volume o 35063E+02 ppml 1 649 ppm2 4 282 and hame Ritzl)	and name HG21) and same HG21) and same HG2) 82 2102 weacht 0 10000E+01 vollume 0 231445-03 nom1 1 648 nom2 2 813	and name HO2)	and name KG24) and name HB2))	and name H024) and name HB1) and name HB1) 10000E+01 Volume o 34384E+03 ppml 1 649 ppm2 2 700	(((OR))) ((())) ((HG2N) HG1))	tome HG2t) have HB1)	(1921) HEE:) Weight 0 10000E+01 volume 0 32059E+03 ppml 1 649 ppm2 2.508 Actor	(i e)
and name HA)) and name HGI))	23 and name HA)) 25 and name HA)) 26 and name HA)) 30 peak 20672 weight 0 10000E+01 volume 0 58313E+02 ppml 4 656 ppm2 1 661	and name HA))	61 and name HA)) 22 and name HD1%)	resid 61 and name HA)) resid 62 and name HB2))	end 23 and name IR,))	resid 6. and mame Ata); resid 6. and mame HA); resid 6. and mame HA);	Iname HB2 1) and Andre HA 1) and Andre HA 1)	1 800 peak 2082 weight 0 10000E+01 volume 0 18981E+03 ppml 4 656 ppm2 1 547	1934 6, and name RA.) 1934 2 and name RA.) 1934 3 and name RA.)	25.47 4 414 Johnson Fall D 10000E+01 Volume 0 985678+02 ppml 1 648 ppm2 7 517 44 0 peak 2019 weight 0 10000E+01 Volume 0 985678+02 ppml 1 648 ppm2 7 517 8846 25 and name H0341	and the MODE of th	sold 74 and name KEV) and aname MCSV and aname MCSV and name HCSV	sak 20022 weight 0 10000E+D1 volume 0 60271E+O2 ppm1 1 650 ppm2 7 791 and name HG2≹)	801) 840))	aak 20042 weight o 100008+01 volume o 35063E+02 ppml 1 649 ppm2 4 282 and hame Ritzl)	and name HG21) and same HG21) and same HG2) 82 2102 weacht 0 10000E+01 vollume 0 231445-03 nom1 1 648 nom2 2 813	56 and name HO21) 61 and name HO21)	and name KG24) and name HB2))	and name H024) and name HB1) and name HB1) 10000E+01 Volume o 34384E+03 ppml 1 649 ppm2 2 700	esid 50 and name HOZk) esid 61 and name HB2))	and name MG2k) and name MG1 }}	eed 25 and take NG2N)	reoid 56 and name NG2%) resid 54 and name NE%) 1 600 peak 21112 weight 0 10000E+01 volume 0 12059E+03 ppml 1 649 ppm2 2.508 2.508 remid 25. and name HG2%)	HB1)) , , , , , , , , , , , , , , , , , ,

s 120	1 417	4 256	4 4 4	4 939	4 627		1 083	4 574	3 889	7 534	4 631		4 541
2 635 ppm2	2 635 ppm2	4 952 ppm2	4 952 ppm2	5 477 ppm2	5 297 ppm2		4 656 ppm2	1.400 ppm2	1 401 ppm2	3 866 ppm2	3 867 ppm2		3 867 ppm2
93859E+02 ppml	0.10852E+03 ppm1	0 24494E+01 ppml	72079£+02 ppml	0 53886E+02 ppm1	0 33831E+02 ppml		0 67221E+02 ppml	0 36871E+03 ppm1	0 23831E+02 ppm1	0.13092E+03 ppm1	0 13327E+03 ppml		0 26018E+02 ppm1
0.10000E+01 volume 0	10000E+01 volume	10000E+01 Volume	3 10000E+01 volume 0	0 10000E+01 volume 0	0 100008+01 volume 0		0.10000E+01 volume 0	0.10000E+01 volume 0	0 10000E+01 volume C	0.10000E+01 volume c	0.10000E+01 volume (0.10000E+01 volume (
and name HG2 }) and name HA }) ak 23212 weight	and name HG1)) and name HA)) and name HG1)) and name HG2t) peak 23252 weight	and name H01)) and name HD24) and name HA)) ead name HA))	and name HA)) and name HA)) and name HA)) peak 23392 weight. and name HA))	and name and name and name ax 23512 and name	and name HA)) and name HA)) ax 23582 weight	and name HA)) and name HB1)) and name HA)) and name HA)	and name HA)) and name HD1%) eak 23682 weight and name HA)) and name HG1%)	and name HD2*) and name HA)) peak 23772 weight	and name HA)) and name HB N) and name HB N) peak 23792 weight and name HG N)	ind name HA)) ind name HA)) ind name HEt) ik 23672 weight	ind name HA)) ind name HD's) ind name HA)) ind name HA)) ik 23892 weight	and name HB1)) and name HA)) and name HA)) and name HA))	and name
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1 600 peak 21792 weight G 10000E-01 volume O 216398-02 ppm1 2 042 ppm2 3 seeald 81 and name HB)	### ### ### ### ### ### ### ### ### ##	50 and hame HD14) 50 and hame HD14) 50 and hame HD14) 50 and hame HD14) 60 cand same HD14) 60 cask 22027, waship (100008-01 volume () 251538-02 pont) 154 ponn2	reald 81 and name HD18) reald 81 and name HD18) reald 81 and name HD24) reald 82 and name HD24) condesed 19 and name HD2) 0 000 peak 22432 wought 0.100006+01 volume 0 512468+00 ppml 1 425 ppm2	setd 69 and name HG24) setd 13 and name HB4 setd 13 and name HB4 2 100 peak 22502 weight 0 10000E+01 volume 0 14480E+03 ppml 1 633 ppm2 2	48 and name 58 and name 37 and name	and name HA)} 1.500 peak 22622 weight 0.10000E+01 volume 0.20663E+02 ppml 5 051 ppm2 4 1.500 peak 22622 weight 0.10000E+01 volume 0.20663E+02 ppml 5 051 ppm2 4 1.500 peak 22642 weight 0.10000E+01 volume 0.20663E+02 ppml 5 051 ppm2 4 1.500 peak 22642 weight 0.10000E+01 volume 0.20663E+02 ppml 5 051 ppm2 4 1.500 peak 22622 weight 0.10000E+01 volume 0.20663E+02 ppml 5 051 ppm2 4 1.500 peak 22622 weight 0.10000E+01 volume 0.20663E+02 ppml 5 051 ppm2 4 1.500 peak 22622 weight 0.10000E+01 volume 0.20663E+02 ppml 5 051 ppm2 4 1.500 peak 22622 weight 0.10000E+01 volume 0.20663E+02 ppml 5 051 ppm2 4 1.500 peak 22622 weight 0.10000E+01 volume 0.20663E+02 ppml 5 051 ppm2 4 1.500 peak 22622 weight 0.10000E+01 volume 0.20663E+02 ppml 5 051 ppm2 4 1.500 peak 22622 weight 0.10000E+01 volume 0.20663E+02 ppml 5 051 ppm2 4 1.500 peak 22622 weight 0.10000E+01 volume 0.20663E+02 ppml 5 051 ppm2 4 1.500 peak 22622 weight 0.10000E+01 volume 0.20663E+02 ppml 5 051 ppm2 4 1.500 peak 22622 weight 0.10000E+01 volume 0.20663E+02 ppml 5 051 ppm2 4 1.500 ppm 5 051 ppm	## ## ## ## ## ## ## ## ## ## ## ## ##	5914 107 and name HB1 7) sead 64 and name HB1) 1.900 peak 22562 weight 0 10000E+01 volume 0 38596B+02 ppml 3 573 ppm2 4	and name HE1)) and name HE1)) and name HE2)) and name HE2) and name HE2) back 22912 weight 0 l0000E+01 volume 0.16139E+02 ppm1 5.001 ppm2	send 60 and name HR1)) send 54 and name HR1)) send 57 and name HR1)) 2 400 peak 23002 wealsh 0 10000E+01 volume 0.42823E+02 ppm1 4 285 ppm2 2	resid 37 and name HB1)) resid 37 and name HB1)) resid 44 and name HB1)) resid 44 and name HB1))	and name (RD.)) penk 22042 weight (0 10000E+D1 volume (0 14416E+O4 ppml) 4.261 ppml) 2 and name (RD.)) and name (RD.)) and name (RD.))	resid 0 and name HB)/ 1 900 peak 21052 weight 0 10000E+01 volume 0.17937E+02 ppml 4 409 ppm2 resid 6 and name HD) resid 7 and name HB)

	n2 4 576		a2 4 631		12 4 893			n2 4 643		n2 4 802		n2 7 517		n2 4 671		12 2.141		n2 1 387			n2 4.545			12 4 907		
	1 989 ppm2		1.989 ppm2		1 895 ppm2			2 190 ppm2		3 571 ppm2		4 358 ppm2		4 360 ppm2		1 648 ppm2		1 648 ppm2			1 205 ppm2			1 205 ppm2		
	0.24706E+02 ppm1	•	0.28161E+02 ppml		0.15236E+02 ppml			0 16533E+02 ppm1		0.10950E+04 ppm1		0 38794E+02 ppm1		0 12806E+04 ppm1		0.40558E+02 ppm1		0 24225E+02 ppml			0 24691E+03 ppm1			0 64481E-01 ppml		
•	0 10000E+01 volume		0 100005+01 volume		0 10000E+01 volume			0 10000E+01 volume		0 10000E+01 volume		0 10000E+01 volume		0 10000E+01 volume		0 100008+01 volume		0.10000E+01 volume			0 10000E+01 volume			0.10000E+01 volume		
	and name and name peak 24723	and name and name	and name peak 24732	and name	and name peak 24772	and name HG1)) and name HA))	and name and name	and name HD1)) and name HA)) peak 24822 weight	and name	and name	and name and name	and name and name sak 24982	and name and name	and name and name peak 24992	and name	and name HG12)) and name HB1)) peak 25052 weight	and name HG12)) 9 and name HB2))	and name HG12)) 9 and name HG1)) peak 25112 weight	and name	and name and name	and name and name eak 25152	and name HD1%) and name HA)) and name HD1%)	and name and name	peak 25162 weight and name HDIt) 5 and name HA))	and hame	
	resid 19 resid 15 1 700	esid 19 esid 16	1.700	31d 19	1 300	gid "BrD " and resid 86 gid "BrD " and resid 87 72}	esid 19 esid 64	1400 1400	"BrD " and resid 19 "BrD " and resid 20 !!}	"BiD " and resid 97	"BrD " and resid 57 "BrD " and resid 57 "]	esid 21 esid 10 1 900	resid 33 resid 95	"BrD " and resid 21 "BrD " and resid 22 2.000 2 500	"BrD " and resid 21 "BrD " and resid 20 }	irD " and resid 21 irD " and resid 18 3 100 2 000	aegid "BrD " and resid 21 aegid "BrD " and resid 109 [25112]	({ segid "BrD " and resid 21 and name ({ segid "BrD " and resid 109 and name } 3.900 3.800 1.600 peak 25112	gid "BrD " and resid 21 gid "BrD " and resid 115 12}	resid 21	"BrD " and resid 10	gid "BrD " and resid 21 gid "BrD " and resid 17 52} gid "BrD " and resid 21	BrD " and resid 75	0 000 esid 21	62) 91d "BrD " and resid 21	gid "BrD" and resid 59 5172} gid "BrD" and resid 21
,	ASSI (2 (se () se () se () se	(96 (96 (96 (96	((pe	ASSI (2	(9) (4 4 OR (247	08 (24)	S) (2) (2) (3) (4) (5) (5) (7) (7) (7) (7) (7) (7	() () () () () () () () () ()	(segid (segid (segid ASSI (segid (segid	(2. 2. OR 246	((segid (segid ASSI {2496	((me (me 3 3 OR {249	(6 e 6 c 6 c 6 c 6 c 6 c 6 c 6 c 6 c 6 c	((se ((se 2 OR [245	((megid ((megid ASSI (25052	98))	(segid "B (segid "B (segid "B ASSI (25112)	((80	0 (186	(8e	(segid (segid 2 600 OR (25152)	(segid (segid OR (25152) (segid)	2 OR (251	OR (251	ASSI (2
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	0 53948E+02 ppml	0 166418402 ppm]		0 18200E+00 ppm1			0.15952E+03 ppm1		0 91417E+00			0 23222E+02 ppml		0 15293E+03 ppml	1	0.106148±03 mm1					Tudd zotaztrzeco	0 105726+03 ppml		0.31255E+02 ppm1		
	0 10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume			0 10000E+01 volume		O 10000Exp1 tox			0 10000E+01 volume		0 10000E+01 volume		0 100008+01 volume		em. (co. 10.00001 o				0.10000E+01 volume		0 100005+01 Volume 0.31255E+02 ppm1		
	and name HD2*) peak 23912 weight and name HB1)) and name HG2*)	and name HB2)) and name HD2%) peak 23942 weight	(B2))	HD2V) HG2V) Weight		and name	weight HD24)	and name HD2*) and name HD2*)	and name HD2%) and name HB%)	and name HD2%) and name HB2))	HD2*)	weight HD2%) HB1))	and name HD2%)	and name HD1%) and name HB1)) peak 24492 weight	HD1*)	and name HD1%) and name HD2))	HD1V)	HD14)	HD14)	name HD2%)	HDZ*)	HA)) HG)) weight	and name HA))	and name RA)) and name RA)) peak 24712 weight (and name HA))	and name HA)) and name HB1))
:		SSI {23942} ({ segid "BrD " and resid 18 { segid "BrD " and resid 14 4 100 4 100 1 400	resid 18	(segid "BrD " and resid 18 (segid "BrD " and resid 21 (segid "BrD " and resid 21 5 500 5 500 0 000 1	esid 18	eid 18	2 000	(segid "BrD " and resid 14 OR [24112] (segid "BrD " and resid 18 (secid more more and 18	esid 18	esid 18	(segid "BrD " and reald 18 (segid "BrD " and reald 106 (segid "BrD " and reald 106	3 900 3 800 1 600 1 (24292) (eeg1d "BrD " and resid 18 (eeg1d "BrD " and resid 68 (eeg1d "BrD " and resid 68 ("BrD " and resid 18	esid 63 esid 68 2 000	resid 63 resid 15	esid 63	resid 63	esid 63 esid 16	3rD " and resid 63	esid 63	(segid "BrD " and resid 68 (segid "BrD " and resid 68	 BrD " and resid 19 BrD " and resid 22 2 200 2 200	BrD " and	resid 19 resid 23	"BrD " and resid 19	84712) segid "BrD " and resid 19 segid "BrD " and resid 20
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4 509	4. 32. 32.		4 824	4.824	4 568	3 670	3,671	4 655	655		4 85
1 254 ppm2	1 154 ppm2		1 253 ppm2	1 154 ppm2	1 154 ppm2	1 154 pom2		1.401 ppm2	1 401 ppm2		1 400 ppm2
0 901318+02 ppm1	0 15256E+03 ppml		0 15787E+03 ppml	0 95882E+02 ppm1	0 11502E+03 ppml	0 70430E+02 ppm1	0 38059E+02 ppm1	0 28885E+03 ppml	0 26059E+02 ppml		0 367228+02 ppm1
10000E+01 volume	0 10000E+01 volume (0 10000E+01 volume (0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume		0.logooE+ol volume	0 10000E+01 volume		0 10000E+01 volume
110 and name HG2%) 114 and name HAZ)) 30 peak 25862 weight 0	o and name HQ2t) and name HA)) o and name HD1t) and name HA)) peak 25872 weight		and name HG2t) and name HA)) eak 25882 weight and name HG2t)	and name HD1%) and name HB)) eak 25892 Weight and name HD1%) and name HD1%)	and name HD1%) and name HA)) eak 25902 weight and name HD1%)	110 and name HD1%) 110 and name HD1%) 110 and name HD1%) 00 peak 26022 weacht	and name HD1t) and name HB1)) and name HG2t) and name HB1))	HG2V) HB2)) HG2V) HA)) weight	HG2%) HA)) HD1%) HA)) Weight	and name and name and name and name and name and name	
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4 863	7 536	4 265	4.657	3 736	3 662	2 702	2 167	2 654		2 011	4 823
1,205 ppm2	1 204 ppm2	4 804 ppm2	1 596 ppm2	1 599 ppm2	1 599 ppm2	1.550 ppm2	1 550 ppm2	1 599 ppm2		1 599 ppm2 1 599 ppm2	2,338 ppm2
0 95979E+02 ppml	0.25847E+03 ppml	0 50125B+02 ppm1	0 54447E+02 ppml	0 55968B+02 ppml	0 10843E+02 ppm1	0 84040E+02 ppm1	0 27614E+02 ppml	0 11881E+02 ppm1		0 255818+03 ppml 0 75349E+02 ppml	0 26102E+02 ppm1
0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume	0 10000E+01 volume
and name HB }} peak Z5172 weight and name HDI%}	and name HA)) and name HD1\$) and name HEt) eak 25182 weight and name HD1¢) and name HD1¢)	and name HA)) and name HA)) eak 25392 weight and name HA))	and name HG2%) and name HB1)) peak 25602 weight and name HG2%) and name HA2%)	and name HG2%) and name HB1)) eak 25622 weight and name HG2%) and name HB1)	and name HG2%) and name HB2)) ak 25632 weight and name HG2%) and name HB2))	ind name HD1%) ik 25672 weight ik 25672 weight ind name HD1%) ind name HB1%)	nd name HD1%) ind name HG2)) ik 25692 weight ind name HD1%) ind name HB1%)	ind name HD1%) ind name HD2)) ind name HG2%) ind name HE%) ik 25702 weight	nd name HB1)) nd name HB2)) nd name HB1)) nd name HB1)) nd name HB1))	and name HG2\$) and name HG2\$) and name HD1)) and name HG2\$) and name HG2\$) peak 25772 weight and name HG2\$)	and hame HG2t) and name HG2t) and name HG1t) and name HB)) and name HA)) and name HA)
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	0 61111E+02 ppm1	:			0 10007E+03 ppm1		0.44344E+02 ppml		0 74355E+01 ppm1		0 33112E+02 ppm1				0 80433E+03 ppm1		0 92248E+02 ppml		0.33967E+02 ppml							
•.	0 10000E+01 volume				0 10000E+01 volume		0 10000E+01 volume		0 10000E+01 volume		0 10000E+01 volume				0.10000E+01 volume		0 10000E+01 volume		0.10000E+01 volume							
	s and name HA)) 10 and name HG12)) 15 and name HD1t) 0 peak 27592 Weight	10 and name HG12)) 8 and name HB1))	2 and name HD14) 02 and name HD24)	10 and name HG12) } 02 and name HD2*)	3 and name HD2*) 4 and name HA)) 0 peak 27622 weight	3 and name HD2*)	8 and name HA)) 2 and name HZ)) 0 peak 27832 weight	8 and name HA)) 4 and name HD%)	and name HB2)) 16 and name HG12)) 0 peak 27852 weight	8 and name HB2) } 6 and name HD1%	resid 78 and name HB2)) resid 110 and name HG12)) 1 800 peak 27862 weight	and name	and name	8 and name HBZ)) 1 and name HG12))	6 and name HD1%) 4 and name HD%) 0 peak 27962 weight	and name and name	8 and name HD2%) 2 and name HA)) 0 peak 28022 weight	and name	and name and name	and name and name	8 and name HDZV) 0 and name HA))	8 and name HD2%) 04 and name HA))	8 and name HD2*)	8 and name HD2*)	78 and name HD2%) 14 and name HA))	78 and name HD2%) 71 and name HA))
- Contract	(1 48914 Pro and read 59 and hame My (89592) (89592) (89914 "BrD " and read 110 and name HG (89914 "BrD " and read 115 and name HD (89914 "BrD " and read 115 and name HD (7992 We) 300 2 100 2 200 peak 27592 We	} d "BrD " and resid 1 d "BrD " and resid 7	d "BrD " and resid 2 d "BrD " and resid 1	d "BrD " and resid 1 d "BrD " and resid 1	d "BrD " and resid 7 d "BrD " and resid 7 0 2 200 2 20	d "BrD " and resid 7 d "BrD " and resid 7	d "BrD " and resid 7 d "BrD " and resid 8	d "BrD " and resid 7 d "BrD " and resid 7	d "BrD " and resid 7 d "BrD " and resid 1 o 4,700 0 80	d "BrD " and resid 7 d "BrD " and resid 5	d "BrD" and resid 7	d "BrD " and resid 7 d "BrD " and resid 2	} d "BrD " and resid 7 d "BrD " and resid 2	d "BrD " and resid 7 d "BrD " and resid 2	ASS1 {2.796.2} (segid "BED " and resid 76 (segid "BED" and resid 74 2 200 2.200 2.300 pe	} d "BrD " and resid 7 d "BrD " and resid 8	d "BrD " and resid 7 d "BrD " and resid 2: 0 2 400 2 40	d "BrD " and resid ? d "BrD " and resid 8	42} d "BrD " and resid 7 d "BrD " and resid 5: 0 3 200 1 90	d "BrD " and resid 78 d "BrD " and resid 76	OR (28042) (segid "BrD " and resid 78 (segid "BrD " and resid 80	d "BrD " and resid 78 d "BrD " and resid 104	d "BrD " and resid 78 d "BrD " and resid 20	d "BrD" and resid 78 d "BrD" and resid 109	esid esid	nd resid
3	ASSI (2) ((sec (sec 3 3 3	OR (2755 (sec)	08 (273) 996) 996)	(C) 1004) (E 86)	OR {2763	21 (SER.))	OR (2783 (869) (869	(Beg () () () () () () () () () (OR (2785 (seg (seg (seg	2) (See () () (See () () () () () () () () () () () () ()	OR (2786 (.seg	OR (2786 (1 8eg	OR {2786 ((seg ((seg	ASSI (27)	OR (2796 (seg (seg	ASSI (28 (689 (689 3 1	OR [2802 (seg ((seg	ASSI (28 (seg ((seg 3,6	OR (2804 (seg (seg	OR (2804 (Beg (Beg	OR (2804 (869 (869	2087) NO 2080	(aeg	598)	
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	Zasozeroz ppm. 1 tot ppm. 5	66907E+02 ppm1 2 410 ppm2 4			5.642 ppm2 5		2 341 ppm2 3		2 341 ppm2 3					35670E+02 ppml 2 338 ppm2 0		1.648 ppm2			1 599 ppm2 4		74913E+02 ppm1 1 599 ppm2 4			19846E±03 nrm1 1 599 nrm2 2		
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c came to to the came of the c	ear 2002 weight 0.10000erul Volume 0.2002Erul ppm. 1 401 ppm. 3 and name HD1k) and name HB2))	0 10000E+01 volume 0 66907E+02 ppml 2 410 ppm2 4	and name HB)) and name HA))	and name HB)) and name HA))	0 10000E+01 volume 0 33743E+02 ppml 5.642 ppm2 5	and hame MA)) and hame MBI))	(01)) (11) (12) (13) (13) (14) (15) (16) (17)	and name HS))	HG1)) HR1)) HR1) HR1) HR2) HR3) HR3 3 341 ppm2 3	and name HO)) and name HB1))	name	name	and name NG]) and name HBl])	Mid)} MG24} weight 0 10000E+01 volume 0 35670E+02 ppml 2 338 ppm2 0	and hame HG }}	0 1014) 18) Meight 0 100005+01 Volume 0 26261E+02 ppm1 1.648 ppm2	and name	and name and name	and have HD24) and name HD24) sek 27482 weight 0 10000E+01 Volume 0 77977E+02 ppml 1 599 ppm2 4	and name HD2t) and name HA))	MID(24) HA)) weight 0.10000E+01 volume 0 74913E+02 ppml 1 599 ppm2 4	and name HP21)	and name HD24)	and name HD2t) and name HB2) nother of the transfer of the tr	HESSI CALCOCCECA VALUE CALCOCCECA PENER ALLO PENER ALLO ALCOCCECA PENER ALCOCCECA PEN	HDI\$)
Comment to the transfer to construct to control to control to determine the control to c	Jo peak 6036 weight. 0.100006+01 VOIUME 0 200026+02 ppm. 1 401 ppm. 3 116 and name HD11) 106 and name HB2))	seat 115 and name HB)) 6 and name HB)) 2 200 peak 26512 weight 0 10000E+01 volume 0 66907E+02 ppml 2 410 ppml 4	esid 116 and name HB	esid 116 and name HB esid 72 and name HA	esid 89 and name HA)) 1 200 pak 27012 weight 0 10000E+01 volume 0 33743E+02 ppml 5.642 ppm2 5	esid 89 and name esid 93 and name	eerd 80 and hame NOI.)) 2.200 padk 27222 weight 0 10000E+01 volume 0 61197E+02 ppml 2 341 ppm2 3	73 and name 68 and name	0 10000E+01 volume 0 87654E+01 ppml 2 341 ppm2 3	(1.47402) and reeld 73 and name HG)) ((segid "BFD" and resid 77 and name HB1))	resid 73 and name	resid 54 and name	esid 77 and name	and name HGD) and name HGD4 peak 27332 weight 0 10000E+01 volume 0 35670E+02 ppml 2 339 ppm2 0		esia (2 a and hame HD14) (814 25 and hame HB)) 1 700 peak 27462 weight 0 10000E401 volume 0 26281E402 ppml 1.648 ppm2	and name	esid 22 and name	and have HD24) and name HD24) sek 27482 weight 0 10000E+01 Volume 0 77977E+02 ppml 1 599 ppm2 4	22 and name 58 and name	0.10000E+01 volume 0 74913E+02 ppm1 1 599 ppm2 4	and name and name	OK (2/502) and resid 22 and name HD24) (septed 82) and resid 20 and name HD) Acer (septed 82) and resid 20 and name HA))	and name HD2t) and name HB2) nother of the transfer of the tr	to great mine with the control of th	and name

1 253 ppm2	2 141 ppm2	1 303 ppm2	1 303 ppm2	1 303 ppm2	1 304 ppm2	1 548 ppm2 1 848 ppm2	64.8
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0 10000E+01 Volume 0 51532E+01 ppml	0 100005+01 volume C	0 100005+01 volume C	0 10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume (0 10000E+01 volume (0 1000	
and name HD21) sak 28132 weight and name HD24) and name HD24) and name HG21) and name HG21) and name HG21)	and name HG1) and name HG2() and name HG)) and name HA)) sak 28552 weight and name HG)) and name HG))	and name HGA)) and name HAA)) and name HD2t) bak 28592 weight and name HD2t) and name HB2t) and name HB4) and name HB4)	HEV) weight HD2%) HD4) HD4) HA)) weight	HD14) HA)) HD14) HB2)) Weight HD14) HD14) HA))	and name HD14) And 28772 weight and name HD24) and name HD24) and name HB1) and name HB1) and name HB1)	and name HO24) and name HO14) and name HB1)	and name HEV)
	esid 10 esid 10 esid 25 1 500 esid 26	((emgid 'BED' and reald 97 ((a eegyd Terr) and Yeard 194 and name 2 000 2 000 2 2000 perk 26602 (#5602) (eegyd Terr) and Yeard 102 and name (eegyd Terr) (eegyd Terr)	(west, "BDD" and resuld 102 and name (west, "BDD" and resuld 106 and name (segut "BDD" and resuld 105 and name (segut "BDD" and resuld 105 and name (segut "BDD" and resuld 105 and name (segut "BDD" and resuld 102 and name	(orgal 'bib' and read 39 R (28772) 3 100 2 000 pp R (28772) 2 000 pp Geograf 'bib' and read 102 Geograf 'bib' and read 115 (Geograf 'bib' and read 115 (Geograf 'bib' and read 115 (Geograf 'bib' and read 115 3 300 2 200 R (2862) 2 700 2 200	BED and resid if	ED and resul 59 ED and resul 19 ED and resul 69 ED and resul 69
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и	85	525	27	711	42	70	
4. E3	8. 8.	4. ?y	4.427	m m	2.347	2.670	w 4. Q ⊍
0 761 ppm2	0 761 ppm2	0 662 ppm2	0 662 ppm2	0 760 ppm2 0 662 ppm2	0.662 ppm2	0 662 ppm2	0 760 ppm2
0 28600£+02 ppm1	0 48389E+02 ppm1	0 107746+03 ppm1	0 123988+03 ppml	0 76864E+02 ppml	0 38156£+02 ppm1	0 129976+02 ppml	0 27394E+03 ppm1
0 10000E+01 VOlume 0 28600E+02	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume 0 7666E+02 0 10000E+01 volume 0 2259E+02	0.10000E+01 volume	0 10000 5+01 volume	0.10000E+01 volume 0 27194E+02
and name HDIV) and name HA 1) peak 28052 weight and name HDIV) and name HA 1) and name HA 1)	and	and name and name and name and name and name and name	and name	and name	and and peak d	and name HD21) and name HG)) and name HE1) peak 28162 weight and name HB21) and name HB21) and name HB21)	and name N11, and name N12) peak 21/2 weight nur hame H11, and name H11, and name H11, and name H12, and name H12, and name H21, and name H21, and name H21,
resid 78 1 700 1 700 resid 78 resid 78	esid 78 esid 79 2 100 2 100 esid 78 esid 78	((usgid "BPD" and reald 107 (usgid "BPD" and reald "B ASSI [2802]		(2812) 200 2 500 2 300 [(8212) 3 2 500 [(8214) 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	cend 78 cend 78 cend 78 cend 78 1 900 cend 78	esid 78 esid 78 esid 78 1 200 cesid 78 eesid 78	4 5 5 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
22 22 22	22 22 22	2 22 22 22		<u> </u>	g gg gg ge	OR (2812) (ASST (25472) E (25472) E (25472) E (25572) E (

	2 182	1 417		4 810		1 222	4 378		1 260	4,693		1.776	4 622					1 631		4 810
	4 607 ppm2	4 607 ppm2		5.445 ppm2		2 334 ppm2	2 141 ppm2		4.509 ppm2	5 758 ppm2		7 246 ppm2	7 012 ppm2					7 758 ppm2		7.711 ppm2
	ume 0.92305E+02 ppml	ume 0.22638E+02 ppm1		une 0 26724E+03 ppm1		ume 0 31262E+02 ppml	ume 0 39276E+02 ppml		volume 0.28077E+02 ppm1	volume 0 20163E+03 ppm1		volume 0,34245E+02 ppml	Volume 0 35398E+02 ppml					tume 0 36890E+02 ppm1		0 10000E+01 volume 0 26898E+03 ppm1
	0 10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume		0 10000E+01 volume	0 10000E+01 volume		0 10000E+01 vol	0 10000E+01 vol		0.10000E+01	0 10000E+01 vo					0.10000E+01 volume		
and name HD1)) and name HB2)) and name HB2))	HB1)) Weight	and name HB2 }) and name HG1 }) and name HA)) and name HD2%) peak 29722 weight	and name HA)) and name HG2%)	and name MA)) and name MA)) peak 29732 weight	ind name HA)) ind name HA)) ind name HB1))	and name HB1))	ind name HB2)) ind name HA)) ik 30672 weight	and name HB2)) and name HA)) and name HA))	and name HG)) peak 30952 weight and name HA))	and name HD2%) and name HD%) and name HA)) peak 83 weight	Jame Jame	and name HB }) peak 533 weight and name HE% }	and name HB)) and name HA)) peak 643 weight	пате пате	and name HA)) and name HD#)	name	and name HDV)	and name HD%) and name HG2%) ak 1143 weight	A THE	and name KD%) and name HA)) ak 1393 weight
({ segid "BrD " and resid 109 a OR {29702} (segid "BrD " and resid 60 a { (secid "BrD " and resid 56 a	nd resid 15 od resid 18	"BrD " and resid 60 "BrD " and resid 64 "BrD " and resid 15 "BrD " and resid 14	"BrD " and resid 15	nd "BrD " and resid 30 and "BrD " and resid 98 and 1,700 1,700 per 12}	((segid "BrD " and resid 30 and name HA ASI (3052)	3.700 3.400 1 800 per 80592 800 per 90592 800 per 90592	551 (30672) (Geogla "BED" and resid 109 and name H (Geogla "BED" and resid 110 and name H (Geogla "3 200 1 900 peak 30672 w	OR (30672) ((segid "BrD" and resid 109 (segid "BrD" and resid 107 3 ASST (segid "BrD" and resid 75 (gid "BrD " and resid 78 800 3 600 1 700 per 52)	"BxD " and resid 56 "BxD " and resid 46 "BxD " and resid 47 2 300 2 200 p	esid 46 esid 53 esid 47	resid 38 2 300 resid 47	"BrD " and resid 50 "BrD " and resid 74 "BrD " and resid 71 2 400 2 400	"BrD " and resid 74 "BrD " and resid 15 "BrD " and resid 74	segid "BrD " and resid 76 643 segid "BrD " and resid 74 segid "BrD " and resid 56	"BrD " and resid 74 "BrD " and resid 72	"BrD " and resid 74	esid 105 2 400 pe	said 21	segid "SrD" and resid 96 and r segid "BrD" and resid 86 and r 2.200 2 200 2.300 peak 1 1393
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	361		4 719			1 462		4 964		2 955	2 801			2 722		1 897		2.003		1 986
	1 848 ppm2 2 361		1 848 ppm2 4 719			1 848 ppm2 1 462		2 536 ppm2 4 964		2 535 ppm2 2 955	2 535 ppm2 2 801					4,409 ppm2 1 897		4 804 ppm2 2.003		4.607 ppm2 1 906
	1 848 ppm2 2		0 146158+02 ppml 1 848 ppm2 4			0 38252E+02 ppml 1 848 ppm2 1		0 763468+02 ppm1 2 536 ppm2 4		ppml 2 535 ppm2 2	2 535 ppm2	:		0 231008+03 ppml 2 535 ppm2 2		ppml 4.409 ppm2 1		4 804 ppm2		4.607 ppm2 1
i name HB*) 3 name HE*)	0.10000E+01 volume 0.29631E+02 ppml 1.848 ppm2 2	name name name	HEt) HA)) weight 0 10000E+01 volume 0 14615E+02 ppml 1 848 ppm2 4	пате	d name HEV) d name HA)) d name HA))	MES) MEDS) Weight 0 10000E+01 Volume 0 38252E+02 ppml 1 848 ppm2 1	d name HEV) d name HEV)	0 100005.01 volume 0 763648+02 pzml 2 536 ppm2 4	ת בספס איני בייני	0 10000E+01 volume 0.30281E+02 ppml 2 535 ppm2 2		HB1))	id name HEP) id name HG2)) id name HG2))	[64] (O1)) weight 0.10000E401 volume 0.231008+03 ppml 2 535 ppm2 2	id name HEV)	18 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	id name HA)} id name HB2 }}	0.1); 03.1); eaght 0.10000E+01 volume 0.16470E+02 ppml 4.804 ppm2	d hame [A,])	0.1000008+01 volume 0 16053E+03 ppml 4.607 ppm2 1
(segid "BFD" and reald 31 and name HBt) (segid "BFD" and reald 59 and name HBt)	1800 peak 29012 weight 0.10000E+01 volume 0.29631E+02 ppml 1.848 ppm2 2.31840 peak 29012 weight 0.10000E+01 volume 0.29631E+02 ppml 1.848 ppm2 2.31840 2.3 and hame HE\$)	esid 59 and name seid 73 and name eeid 59 and name	nd resid 59 and name HBt) nd resid 22 and name HA)) 0 1 300 pcak 29072 weight G 10000E+01 volume O 14615E+02 ppml 1 848 ppm2 4	"BrD " and resid 59 and name "BrD " and resid 58 and name	(segad "BFD" and resid 59 and name HR)) ((segad "BFD" and resid 69 and name HA)) ((segad "BFD" and resid 59 and name HR)) ((segad "BFD" and resid 53 and name HR))	resid 59 and name NG\$4) resid 73 and name NG\$4) 1 900 peak 29152 weight 0 10000E+01 volume 0 38252E+02 ppml 1 848 ppm2 1	and 59 s.d 63	3934 62 and name HGP)) 994 64 and name HEP) 995 64 60 and name HEP) 997 997 997 997 978 978 978 978 978 978	2 300 peak 25154 emight. U 10000Evil Volume o forverera para.	Basid 54 and name HBt) said 55 and name HBt) said 55 and name HBt) said 55 and name HBt) said 54 and name HBt) said 54 and name HBt)	BEC and resid 37 and name HBL BEC and resid 54 and name HBL BEC and resid 35 and name HBL	"BrD" and resid 54 and name HFt)	OR (29925) (Coggid "BED" and resid 54 and name HEV) (Coggid "BED" and resid 51 and name HOZ)) (Coggid "BED" and resid 61 and name HOZ)) (Coggid "BED" and resid 54 and name HOZ) (Coggid "BED" and resid 54 and name HOZ))	2) "BDD" and resad 54 and name NG1) "BDD" and resad 37 and name NG1)) 1 700 1 700 peak 29262 weight 0.10000E+01 volume 0 23100E+03 ppm1 2 535 ppm2 2	resid 54 and name resid 59 and name	0 10000E+01 volume 0 16991E+02 ppml 4.409 ppm2 1	"BrD " and resid 19 and name "BrD " and resid 103 and name)	"BPT " and resid ill and name Hdl) 4.100 4.100 1.400 peak 29662 weight 0 100005+01 volume 0 16470E+02 ppml 4 804 ppm2	22	4.607 ppm2 1

4.930	4 784	4 673	2 755	4 212	5.579	4.791	4.440	1.333	4 791		4 683	
7.921 ppm2	8 063 ppm2	8.062 ppm2	8.009 ppm2	7 960 apm2	7 928 ppm2	7 929 ppm2	7.921 ppm2	7 924 ppm2	7 913 ppm2		7.918 ppm2	
0.10500E+03 ppm1	0 65660E+02 ppm1	0.96219E+02 ppml	0.25291E+03 ppml	0 39954E+03 ppml	0 223956+02 ppm1	0 41681E+02 ppml	0.88364E+03 ppml	0 20962E+03 ppm1	0 28521E+02 ppml		0 10760E+03 ppml	
0.10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10060E+01 volume	0.10000E+01 volume	0.10000E+01 volume	0 100008+01 volume	0 10000E+01 volume	0 10000E+01 volume		0 100006+01 volume 0 107606+03 ppml	
574 weight	and name HE3)) and name HA)) and name HZ)) and name HB)) eak 604 weight and name HZ))	name HA)) name H2)) name HA)) 614 weight name H2))	name HZ }) name HA)) name HZ)) name HB1)) 704 weight	name HB1)) name HB2)) 794 weight name HDt)	H2)) HD2)) Weight H2))	name HA)) name HZ)) 974 weight	name HZ)) name HA)) name HE*) name HA))	name HZ)) name HA)) name HZ)) name HD1*)	name HEt) name HBl)) name HZ)) name HZ))	and name and name and name	and name HE*) and name HA)) eak 1094 weight and name HE*) and name HA))	and name HB)) and name HB)) and name HE)) and name HE) and name HE) and name HE)
2.600 2.300 peak	megaid 'BrD' and reald 32 and [604] egydd 'BrD' and reald 32 and segydd 'BrD' and reald 107 and 1950 and 2 000 peak (604) egydd 'BrD' and reald 107 and segyd 'BrD' and reald 107 and	segid 'BrD' and reard 82 and (614) and segid 'BrD' and reard 80 and 53.00 = 7.00 peak 614) 2 and reard 107 and segid 'BrD' and reard 115 and segid 'BrD' and reard 115 and segid 'BrD' and reard 115 and	esid 107 esid 76 esid 79 2 000 esid 32	" and resid 94 " and resid 32 1 700 1 700 " and resid 47	esid 34 esid 28 1 300 esid 34	segid "BrD" and resid 34 (974) 29214 "BrD" and resid 34 segid "BrD" and resid 98 segid "BrD" and resid 98 974}	segid "BrD" and resid 34 and 26914 "BrD" and resid 82 and 1.044 and resid 82 and 26914 "BrD" and resid 107 and 26914 "BrD" and resid 79 and 2.300 1.300 peak	1004) and resid 34 and eegid "BrD" and resid 39 and (1074) eegid "BrD" and resid 34 and eegid "BrD" and resid 30 and 5 300 2.100 peak.	1904) and reald 107 and seegid "BrD" and reald 78 and (1084) eggld "BrD" and reald 34 and seegid "BrD" and reald 39 and seegid "BrD" and reald 39 and 4.000 4.000 peak	resid resid resid	"BrD" and resid 107 and "BrD" and resid 118 end 2.600 2 300 peak "BrD" and resid 107 and	"BID" and resid 68 "BID" and resid 53 "BID" and resid 67 "BID" and resid 107 "BID" and resid 104 "BID" and resid 104
3.200 OR { 574}	((segid "B ((segid "B ((segid "B (segid "B 3 500 OR (604)	(aegid "E (aegid "B (aegid "B (aegid "B 3 3300 OR { 614} (aegid "E (aegid "E	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(degid "BrD ASSI (794) (segid "BrD (2600) OR (794) (segid "BrD	ASSI { 964 } (segid "B (segid "B (964) C (segid "B				4 000 4 000 000 000 000 000 000 000 000	OR { 1084 } (86914 "E	(segid *E (segid *E OR { 1094} (segid *E (segid *E	86914 109914 109914 109914 109914 109914 109914
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				7 618 ppm2 4 367	7 804 ppm2 4 971		6 687 ppm2 1 777	7 266 ppm2 4.424	7 270 ppm2 2.504	7 970 ppm2 0 780		8 158 ppm2 4.538
	4	ppm2 7	4	ppm2 4	7 804 ppm2 4		6 687 ppm2 1	7 266 ppm2	7 270 ppm2	ppm2	Ppm2	2 150 ppm2
	0 21871E+02 ppm1 7 617 ppm2 4	0 138728+02 ppml 7 617 ppm2 7	0 20141E+02 ppml 7.478 ppm2 4	0 147938-02 ppml 7 618 ppm2 4	0 11153E-03 ppm1 7 804 ppm2 4		0 552968+02 ppml 6 687 ppm2 1	7 266 ppm2	O 515848+03 ppm1 7 270 ppm2	O 557308+02 ppml 7 970 ppm2	0 18431E+03 ppml 7 970 ppm2 4	0 219246.63 ppml 8 158 ppm2
96 and name HD#) 92 and name HA))	nd name HEV) 4 L 176 weath c 10000E+01 volume 0 21871E+02 ppm1 7 617 ppm2 4 to inset HEV)	110 and hame HZ }) 110 and hame HZ }) 106 and hame HD } 106 peak 1783 weight 0 10000E+01 volume 0 13872E+02 ppml 7 617 ppm2 7	62 and name HD) 62 and name HD) 95 and name HD) 94 and name HD) 100 peak 1813 weight 0 10000E+01 volume 0 20141E+02 ppml 7.478 ppm2 4	95 and name HDt) 96 and name HBt) 96 and name HBt) 96 and name HBt) 90 and name HBt) 91 and name HBt) 92 and name HBt)	name HZ)) name HZ)) name HZ)) 2063 weight 0 100008+01 volume 0 11153E-03 ppml 7 804 ppm2 4	2.2 and name HZ3)) 2.2 and name HZ3)) 3.2 and name HZ3)) 8.5 and name HZ3))	0 100005+01 Volume 0 562968+02 ppml 6 687 ppm2 1	name HD#) name HD#) 94 weight 0 10000E+01 volume 0 10359E+04 ppm1 7 266 ppm2 name HD#) name HD#)	name HEN) Name HC2)) 104 weight 0 100008+01 volume 0 515648+03 ppm1 7 270 ppm2 name HON) name HON)	47 and name HD4) 50 and name HD21) 60 peak 124 weight 0 100008+01 volume 0 557308+02 ppm1 7 970 ppm2 47 and name HD3) 38 and name HD24)	and hame HDE)) and name HDE)) peak 134 weight 0 10000E+01 volume 0 18431E+03 ppml 7 970 ppm2 4 and name HZE)) and name HZE))	28 and name HEI) 29 and name HEI) 20 and name HEI) 21 and name HEI) 22 and name HEI) 23 and name HEI) 24 and name HEI) 25 and name HEI) 26 and name HEI) 27 and name HEI) 28 and name HEI)
nd name HD*	BED and resid 106 and name HEV BED and resid 107 and name HA 2 900 2.100 peak 175 and see And the See And th	name RE4) name RE7) name RE9) 1103 weight 0 10000E+01 volume 0 11872E+02 ppml 7 617 ppm2 7 name RE8)	### and resid 62 and hame HE!) ### and resid 62 and hame HE!) #### The stand of and hame HE!) #### The stand of and hame HE!) #### and name HE!) ##### and name HE!) ###################################	resaid 65 and name HDV) Fastid 66 and name HEV) Fastid 66 and name HEV) Fastid 96 and name HEV) Fastid 97 and name HEV) Fastid 97 and name HEV)	read 33 and name HA)) read 32 and name HA)) read 32 and name HA)) 0.000 peak 2063 weight 0 10000E+01 volume 0 11153E-03 ppml 7 804 ppm2 4	asgaid *BpD; * and resaid 32 and name (H22) } segaid *BpD; * and resaid 32 and name H22) } segaid *BpD; * and resaid 32 and name H22) } \$\frac{4}{24} \text{FpD} \text{ and resaid 85 and name H23 } \\ \end{cases}	cend 46 and name HEt) = eaid 50 and name HE 1) 1 900 peak want to 10000E+01 volume 0 55296E+02 ppm1 6 687 ppm2 1 2 and name HE 1) = eaid 30 and name HE 1)	BPD " and resid 82 and name HDt) BPD " and resid 79 and name HDt) 1 200 1 1200 peak 94 weight 0 10000E+01 volume 0 10359E+04 ppml 7 266 ppm2 BPD " and resid 82 and name HDt) BPD " and resid 99 and name HDt)	and name HEA) and name HC2)) peak 104 weight 0 10000E+01 volume 0 51584E+03 ppm1 7 270 ppm2 and name HO2))	BrD " and resid 47 and name HD4) BrD " and resid 50 and name HD21) 3 200 1 300 peak 124 weight 0 100008+01 volume 0 557308+02 ppm1 7 970 ppm2 BrD " and resid 47 and name HD4) BrD " and resid 47 and name HD4)	**************************************	28 and name HEI) 29 and name HEI) 20 and name HEI) 21 and name HEI) 22 and name HEI) 23 and name HEI) 24 and name HEI) 25 and name HEI) 26 and name HEI) 27 and name HEI) 28 and name HEI)

2 422 22	1 656		4 684			4 926		4 572			3 674			1 819		4.278			3 010		2 796			
7.888 ppm2	7 888 ppm2		7 811 ppm2			7 798 ppm2	-	7 798 ppm2			7 799 ppm2			7 799 ppm2		7.797 ppm2			7 790 ppm2		7 786 ppm2			
0 10144E+03 ppml	0 38056E+03 ppm1		0 19434E+03 ppml			0 65395E+03 ppm1		0 27794E+03 ppm1			0 11824E+04 ppm1			0 46212E+03 ppm1		0 27340E+03 ppm1			0 20510E+03 ppm1		0 23703E+03 ppm1	:		
0 10000E+01 Volume	0 10000E+01 volume		0 10000E+01 volume			0 10000E+01 volume		0 100008+01 volume			0 10000E+01 volume			0.10000E+01 volume		0.10000E+01 volume			0 10000E+01 volume		0 10000E+01 volume			
esid 54 and hame	i resid 14 and name H2)) i resid 101 and name H011)) i resid 68 and name H64) i resid 58 and name H02t) I 700 peak 1304 warght	nd name	2 2 2	resid 104 and name resid 107 and name resid 118 and name	resid 105 and name HD%)	resid 105 and name HD*) resid 105 and name HA)) 1.400 peak 1504 weight	and name	d resid 107 and name HD%) d resid 106 and name HA)) 2 000 peak 1514 weight	ŭŭ	dresid 105 and name HD%)	d resid 105 and name HDE) d resid 105 and name HB2)) 1 200 peak 1534 weight	resid 107 and resid 107 and	d resid 68 and name HD%)	d resid 34 and name HEt) d resid 102 and name HB2)) 2 000 peak 1554 weight	resid 68 and name resid 59 and name	d resid 105 and name HDt) d resid 102 and name HA)) 2.000 peak 1574 weight	resid 105 and resid 101 and	d resid 34 and name HEt) d resid 102 and name HA))	d resid 68 and name HD*) d resid 74 and name HB2)) 2.100 peak 1614 weight	and and	d resid 34 and name HE!) d resid 33 and name HD!)) 2 000 peak 1624 weight	resid 32 and name	resid 107 and name HD* resid 79 and name HB1	d resid 32 and name HH2))
(segid "BrD " and r ASSI { 1294} (segid "BrD " and r (segid "BrD "	(segid "BrD " and r (segid "BrD " and r (segid "BrD " and r (segid "BrD " and r 2.600 1700	H & W - 1	(segid "BrD " and (segid "BrD " and 2 900 2.100 OR [1444] (segid "BrD " and	(segid "BrD " and OR (1444) (segid "BrD " and (segid "BrD " and	OR { 1444} { segid "BrD " and ({ segid "BrD " and best { 1504}	(segid "BrD " and x ((segid "BrD " and x 2 400 1 400	OR { 1504} (segid "BrD " and ((segid "BrD " and	(segid "BrD " and resid 107 ((segid "BrD " and resid 106 2 800 2 000 2 000 p	OR { 1514} (segid "BrD " and (segid "BrD " and)	(segid "BrD " and resid 105 (segid "BrD " and resid 108 (segid "BrD " and resid 108 act (1524)	(segid "BrD " and (segid "BrD " and 2 200 1 200	181		(segid BrD " and (segid BrD " and (segid BrD " and 2 500 2 500	OR (1554) (segid "BrD " and (segid "BrD " and	ASSI { 1574 } (uegid "BrD " and resid 102 (uegid "BrD " and resid 102 2 800 2 000 2.000 g	1574} segid "Bri segid "Bri	OR { 1574} (segid "BrD " and ((segid "BrD " and		OR { 1614} (segid "BrD " and ((segid "BrD " and	ASSI { 1624} (segid "BrD " and ((segid "BrD " and 2 800 2 000	1624) Begid "Br Begid "Br	OR (1624) (segid "BrD " and ((segid "BrD " and OR (1624)	((segid "BrD " and
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	2 212	377 7	1	3 659			2 343		2 374			3 546				2 644		1 886			4 815		2.554	
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	0 63603E+03 ppm1	0 15242E+04 ppm1		0 54441E+03 ppm1			0 60159E+02 ppm1		0.12306£+03 ppml			0 47618E+03 ppm1				0 54491E+03 ppml		0 30083E+03 ppm1			0 84175E+02 ppml		0.45504E+03 ppm1	
	0 10000E+01 volume	0 10000E+01 volume		0 100005+01 volume			0.10000E+01 volume		0.10000E+01 volume			0 100006+01 volume				0 10000E+01 volume		0.10000E+01 volume			0 10000B+01 volume		0 10000E+01 volume	
esid 80 and esid 68 and esid 69 and	1 400 peak 1104 weight (1400 peak 1104 weight (1514) and name HZ (1514) esid 33 and name HZ (1514)	esid 68 and name HEt) sesid 68 and name HDt) 1 100 peak 1114 weight	resid 107 and name HEt) resid 107 and name HDt) resid 34 and name HZ)) resid 34 and name HEt)	and name HZ)) and name HB2)) peak 1124 weight	resid 107 and name HEt) resid 82 and name HB1))	resid 68 and name HE*)	reald 68 and name HB# } reald 62 and name HG1 }} 1 900 peak 1134 weight	sald 68 and	rsid 68 and name HE*) 1814 62 and name HG1)) 2.300 peak 1164 weight	resid 68 and name HEt) resid 73 and name HG))	eeld 107 and	esid 68 and name HE4) esid 68 and name HB2)) 1 600 peak 1204 weight	resid 68 and name HE%) resid 67 and name HBI))	esid 107 and name	esid 34 and esid 82 and	esid 107 and name HB\$ } esid 79 and name HB2 }) 1 600 peak 1244 weight	esid 68 and name coid 62 and name	celd 107 and name HEV) celd 116 and name HG11)) 1.800 peak 1254 weight	resid 68 and name HE*)	esid 107 and name esid 103 and name	esid 34 and name HZ)) esid 98 and name HA)) 2.100 peak 1274 weight	4 4	regid 107 and name MEt regid 103 and name HG2 } 1 600 peak 1284 weight	resid 68 and name HE% }
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476	5 666	1112 2	3 321	0 762	1 088	3 512	1 593
781	781 ppm2 7 726 ppm2	7 721 ppm2	7.17	7 11.7 ppm2	7 714 ppm2		7 643 ppm2
0 24728E+03 ppml	0 22072E+03 ppml	0 55506E+03 ppml	0 79213E+03 ppml	0 69140E+03 ppm1	0 24003E+03 ppm1	0.29314E+02 ppml	0 41702E+03 ppm1
	0 10000E+01 VOLUME	0.10000E+01 volume		0 10000E+01 volume	0 1000005+01 volume		0 10000E+01 volume
and name HEW 1 and name HG2W) and name HG2W 1 and name HDW 1 and name HDW 1 and name HDW 1 and name HD 1) and name HD 0 and name HD 1	and name HD*) and name HD*) and name HD*) and name HB1)	and name HDV) and name HBV) peak 1924 weight and name HDV) and name HDV) and name HDV) and name HDV)	and name HDV) and name HDV) and name HEV) and name HEV) and name HEV) and name HEV)	and name Hbv) and name Hbv) and name Hbv beak 2054 weight	and name HDV) and name HB2)) and name HB1) beak 2064 weight and name HD4) and name HD4) and name HD4) and name HD4)	and name HDV) and name HB2) and name HB2) beak 2274 weight and name HBV) and name HBV) and name HBV) and name HBV)	heak 2294 weight and name HE%)
(megid 'BPD' and resid 34 (megid 'BPD' and resid 25 (1784) (megid 'BPD' and resid 64 (megid 'BPD' and resid 65 2 000 pc 2 000 pc 2 000 pc (megid 'BPD' and resid 107 (megid 'BPD' and resid 107 (megid 'BPD' and resid 107 (megid 'BPD' and resid 106 (megid 'BPD' and resid 68 (megid 'BPD') and resid 'BPD') and 'BPD')	2,700 1800 1.000 1	resid 96 1 600 1 600 resid 34 resid 36 resid 96 resid 92	resid 34 control of 25 control	zor and resid 34 zor and resid 34 zor and resid 34 zor and resid 61 zor and resid 62 zor and resid 64	resid 34 resid 34 resid 34 resid 34 resid 34 resid 34	resid 96 resid 96 resid 59 resid 50 resid 10 resid 25 resid 10 resid 10	8 3
ASSI (1784) (eegld 'B (eeg	2.700 OR [1804] C 0091d "B C 0091d "B ASSI [1884] C 0091d "B C 0091d "B C 0000 OR [1084] C 0000 C 0000 C 00000 C 000000 C 00000000	ASSI (1924) degid "BPD" and (eegid "BPD" and 2.50 1.600 OR (1924) (eegid "BPD" and 2.500	OR { 1964} (megatd 'B (megatd 'B	ASST (1994) ASST (1994) ((asolid 'BPD' and (asolid 'BPD') and	0	
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3 920 2 211	6 6 7	4 815		3 153	2 602	2 334	1 641
7 784 ppm2 3 920	7 786 ppm2 0 876	7 783 ppm2 4 815		7 7e7 ppm2 3 153	7 779 ppm2 2 602		7 761 ppm2 1 641
7 784 ppm2 3	7 786 ppm2 0	7 783 ppm2		c Smpg 767 7	7 779 ppm2 2	7 781 ppm2 2	7 701 ppm2
0 36960E+03 ppml 7 784 ppm2 3	0 96896E+02 ppml 7 786 ppml 0	0 737756.02 ppml 7 783 ppm2 4		0 312135403 ppml 7 767 ppm2 3	0 794185.43 ppml 7 779 ppm2 2	0 18466E+03 ppm.1 7 781 ppm.2 2	7 781 ppm2 1
Date HDX) 1 1 1 1 1 1 1 1 1	name HHZ)) name HHZ)) 124 eaight 0 10000E+01 volume 0 96896E+02 ppml 7 786 ppm2 0 name HZ3)) name HZ3)) name HZ1)) name HZ1)) name HZ1))	name HE 1) 1644 weight 0 10000E+01 volume 0 73775E+02 ppml 7 783 ppm2 4 name HE 1) name HA 1) name HA 1)	is	Name HIV)	nomer HEI) and HEI 1 1 1 1 1 1 1 1 1	### ### ### ### ### ### ### ### ### ##	immer in) 1744 weight 0.10000E+01 Volume 0 92480E+03 ppml 7 781 ppm2 1
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	1 925	4 390	2.695	2 146	2 521	1 331	3 559	7 793	1.080	
	7 611 ppm2	7 536 ppm2	7.534 ppm2	7 534 ppm2	7 531 ppm2	7.530 ppm2	7 530 ppm2	7 520 ppm2	7 520 ppm2	
	0.18273B+03 ppml	0 12798E+03 ppml	o 55016E+03 ppml	0 15519E+03 ppm1	0.82012E+03 ppml	0 34374E+03 ppm1	0 219788+03 ppml	0.23332E+03 ppm1	0.16253E+03 ppml	
	0 10000E+01 volume	0 10000E+01 volume	0 100008+01 volume	0.10000E+01 volume	6.10000E+01 volume	0 100008+01 volume	0.10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	
name name name name name	and name HET) and name HET) peak 2524 weight and name HEt) and name HEt)	name HE*) name HD1)) name HD4) 2544 weight name HD4) name HD4) name HB4)	and and peak	name HB1) name HB2) 2624 weight name HE?)	name HE\$) 2644 weight name HD\$)	name name 2664	tame HEY) tame HEY) tame HB2))	and name HBt) peak 2004 weight	tame HD%) tame HD%) tame HD%) tame HB2))	and name HEV) and name HDIV) and name HBI)) and name HBI) and name HEI)
resid resid resid resid resid resid	1250 110	eegid "BtD" and reaid 96 and eegid "BtD" and reaid 60 and eegid "BtD" and reaid 106 and eegid "BtD" and reaid 107 and aegid "BtD" and reaid 107 and aegid "BtD" and reaid 107 and aegid "BtD" and reaid 105 and	### ### ### ### ### ### ### ### ### ##	(2624) each read 22 and (2624) each read 22 and each 25 200 each 2000 2 200 each 2000 each 200	[2644] 2	(2064) "BrD" and resid 21 and (2064) "BrD" and resid 106 and segid "BrD" and resid 102 and 2 800 2 800 2 800 Peak	Begid "BED" and resal 4" and 1" (2.784) and 1" (2.784) and resal 4" and 1" and resul 4" and 1" and resul 6" and 1" and resul 68 and 1" 2.90 and 1" and resul 68 and 1" 3784)	aggid "8FD" and resid 74 aggid "8FD" and resid 74 2744 "BFD" and resid 74 aggid "8FD" and resid 88 { 2804 "8FD" and resid 89 aggid "8FD" and resid 95 aggid "8FD" and resid 32 2 000 2 000	esid esid esid	segad 'BrD' and Yeard 74 segad 'BrD' and Yeard 95 segad 'BrD' and read 95 segad 'BrD' and read 33 [(2314) segad 'BrD' and read 15 segad 'BrD' and read 16 (segad 'BrD' and read 16
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3 693	1 576	1 005		Q Q Q		4 366	2 771.		1 656	4.015
7 633 ppm2 3 693	7 616 ppm2 1 576	7 623 ppm2 1 095	7 615 ppm2 0 004	7 619 ppm2 4 448		7 617 ppm2 4 366	7 619 ppm2 2 771		4	7 611 ppm2 4.015
7 633 ppm2 3	7 616 ppm2 1	7 623 ppm2 1	7 615 ppm2 0	7 619 ppm2 4		ppml 7 617 ppm2 4	7 619 ppm2 2	7.615 ppm3 2	7.616 ppm2 1	7 611 ppm2
0 291998+02 ppml 7 611 ppm2 3	0 433838+03 ppm.1 7 616 ppm2 1	0 19423E+03 ppml 7 623 ppm2 1	0 918938+02 ppml 7 615 ppm2 8	0 18109E+03 ppml 7 619 ppm2 4		0.11374£+03 ppml 7 617 ppm2 4	0 173468+03 ppml 7 619 ppm2 2	0.24430E+03 ppm3 7,615 ppm3 2	0 35330E+03 ppm1 7,616 ppm2 1	0.48101E+03 pgml 7 611 pgm2
hamme HG12]) abane HB4) 2314 weight 0 100008+01 Volume 0 293998+02 ppml 7 633 ppm2 3 name HB4) name HB4) name HB4) name HB7) name HB7)	name HEt) name HE1) name HE1) 1224 weight 0 10000E-01 volume 0 43183E+03 ppml 7 616 ppm2 1 name HD1) name HD1)	me MC12)) mm HC2) mm HC2) mm HC2) and HC3)	iname HEV) 2-served Hzg2 1) 2-served Hzg2 1) 3-served Hzg2 10 3-served Hzg2 10 3-served Hzg3 10 3-served Hz	name REN) 2354 weight 0 100005+01 volume 0 181095+03 ppml 7 619 ppm2 4 name HEN)) name HEN)	and name (RV) and name (RV) and name (RV) and name (RV)	name HA)) 2364 weight 0 10000E+01 volume 0.11374E+03 ppml 7 617 ppm2 4 name HEA)	and hame HB1) and hame HB1) and hame HB2) and hame HB3) and hame HB3)	and name HEP) and name HDV) and name HDV) and name HDV) and name HDV) and name HBV)	name HDR) name HB)) name HB 1) name HB 1) name HB 1 na	and name HE*) and name HE*) and name HE beautiful to 1000005.01 volume 0.48101E.03 ppm1 7 611 ppm2
name HO12)) name HR1) 1014 weight 0 10000E+01 Volume 0 29399E+02 ppm1 7 633 ppm2 3 name HR1)	Anname HEt) Maname HET) Ma	and name MSE;) and name MSE;) and name MSE;) and name MSE;) pack 2334 weight 0 10000E+01 volume 0 19423E+03 ppml 7 623 ppm2 1 and name MSE;) and name MSE;)	iname HEV) 2-served Hzg2 1) 2-served Hzg2 1) 3-served Hzg2 10 3-served Hzg2 10 3-served Hzg3 10 3-served Hz	and name KEK) cond 2354 weight 0 100005+01 Volume 0 18109E+03 ppml 7 619 ppm2 4 and name KEK) and name KEK)	oegid 'BPD' and resid 106 and name REV) oegid 'BPD' and resid 106 and name REV) segid 'BPD' and resid 106 and name REV) segid 'BPD' and resid 79 and name REV) segid 'BPD' and resid 95 and name REV) segid 'BPD' and resid 95 and name REV)	and name HA }) peak 2364 weight 0 100006+01 volume 0.11374E+03 ppml 7 617 ppm2 4 5 and name HEA)	and name HOM) and name HOM) peak 2374 weight 0 10000E+01 volume 0 17346E+03 ppml 7 619 ppm2 2 i and name HEM) and name HEM)	and name HEP) and name HDV) and name HDV) and name HDV) and name HDV) and name HBV)	name HDR) name HB)) name HB 1) name HB 1) name HB 1 na	BED - and resid 106 and name HEP) BED - and resid 21 and name HEP) BED - and resid 106 and name HEP) BED - and resid 10 and name HEP) 1 600 1.600 peak 2454 weight 0 1000005.01 volume 0.481015.03 pgml 7 611 ppm2 BED - and resid 96 and name HEP)

7 889	7 647	4.636						3 221	220		2 4 4 4	1 496	0.795	96 0
7 005 ppm2	7 005 ppm2	7 005 ppm2						7 004 ppm2	7 005 ppm2		7 004 ppm2	7.005 ppm2	6.687 ppm2	5 740 ppm2
0 13987E+03 ppm1	0 17632E+03 ppml	0 95504E+02 ppm1						0 12756E+03 ppm1	0.575818.02 prm]		0 46728E+02 ppml	0.62447E+02 ppml	0 29261E+03 ppml	0 11437E+03 ppm1
0.10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume						0.10000E+01 volume	0.10000E+01 volume		o 10000E+01 volume	0,10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume
Jame Jame 3564	name name 3584	and name HZ)) 6 and name HE') and name HD') and name HA)) peak 3604 weight	and name HD*) and name HA)) and name HD*)	and name HD* and name RA and name HD*	and name and name and name	and name HDt) and name HA)) and name HDt)	and name	and name HD*) and name HG2)) peak 3634 weight and name HD*) and name HG1))	and name HD%) and name HG2)) and name HD%) and name HB%) book 3664 weadsh	and name and name and name	peak 3674 and name and name	and name and name and name peak 3694	and name HDt) and name HD2t) and name HBt) and name HG12)) peak 3854 weight	and name HEt) and name HO2t) and name HO12)) peak 3954 weight and name HOt)
segid "BLD" and resid 74 and segid "BLD" and resid 22 and (assist "BYD" and resid 107 and [3584] assist "BYD" and resid 74 and assist "BYD" and resid 106 and 3584]	Begid "BrD" and resid 82 aggid "BrD" and resid 106 (3004) and resid 74 aggid "BrD" and resid 74 aggid "BrD" and resid 71 33.300 2 700 2 200 p	Second "BKD" and resid 74 segid "BKD" and resid 15 3604 and resid 74 segid "BKD" and resid 74 segid "BKD" and resid 76	"BrD " and resid 74 "BrD " and resid 56 "BrD " and resid 74	"BrD " and resid 72 "BrD " and resid 74 "BrD " and resid 14	segid "BrD" and resid 74 segid "BrD" and resid 67 3504} segid "BrD" and resid 74 segid "BrD" and resid 74	"BrD " and resid 82 "BrD " and resid 104 4}	BrD " and resid 74 BrD " and resid 75 2 400 2 400 BrD " and resid 74 BrD " and resid 59	BrD " and resid 59 BrD " and resid 74 BrD " and resid 63 BrD " and resid 63	3664) segid "BrD" and resid 82 segid "BrD" and resid 21 (3674) segid "BrD" and resid 82 segid "BrD" and resid 82	3 900 1.800 "BrD " and resid 74 "BrD " and resid 59 "BrD " and resid 74	segid "BrD " and resid 73 (1564) segatd "BrD " and resid 74 segatd "BrD " and resid 63 3 500 3.100 2 000 3654)	eegid "BrD " and reald 74 segid "BrD " and reald 73 { 3854} 8egid "BrD " and reald 46 segid "BrD " and reald 50 2,700 1 800 1.800	aegid "BED" and reald 46 gegld "BED" and reald 36 gegld "BED" and reald 46 seegid "BED" and reald 50 3 200 2 600 3543
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0.20135£.03 ppr1 7.488 ppr2 3		0.24491E+03 ppml 7.263 ppm2 7	0 20070E+03 ppm1 7.074 ppm2 4	0 37424E+03 ppml 7 069 ppm2 2	0 736038+02 ppml 7 067 ppm2 1		0 238595+03 ppml 7 025 ppm2 2	0 187928+03 ppml 7.023 ppm2 0	0 19853E+03 ppml 7 022 ppm2 3	0 12383E+03 ppml 7 023 ppm2 2		0.82384E+02 ppml 7 005 ppm2 2		7 009 ppm2 1
0.20135£.03 ppr1 7.488 ppr2 3		0.24491E+03 ppml 7.263 ppm2 7	0 20070E+03 ppm1 7.074 ppm2 4	0 37424E+03 ppml 7 069 ppm2 2	0 736038+02 ppml 7 067 ppm2 1		0 238595+03 ppml 7 025 ppm2 2	10000E+01 volume 0 18792E+03 ppml 7.023 ppm2 0	10000E+01 volume 0 19853E+03 ppml 7 022 ppm2 3	1000E+01 volume 0 12303E+03 ppml 7 023 ppm2 2		0.82384E+02 ppml 7 005 ppm2 2		7 009 ppm2 1
2914 weight 0.100008-01 volume 0.201358-03 ppr1 7.488 ppm2 3 name HD4) name HD4) name HD1) name HD1) 3 name HD2) 3 na	name HE1) name HE2) name HE2) name HE2)	1264 weight 0 10000E+01 volume 0.24491E+03 ppml 7.263 ppm2 7 name HDt) hame HDt) hame HDt) hame HDt)	3324 weight 0 10000E+01 volume 0 20070E+03 ppml 7.074 ppml 4 hoame HE)	And name NEt) and name NEB)) osak 3394 weight 0 10000E+01 volume 0 37424E+03 ppml 7 069 ppm2 2 and name NEV)	and name KB1)) and name KB4) and name KB4) and name KB4) and name KB4) and name KB4 (1334) 1 0.10000E+01 volume 0 73603E+02 ppml 7 067 ppm2 1	and name and name	and name NO }} peak 3474 weight 0 10000E+01 volume 0 23859E+03 ppml 7 028 ppm2 2 and name ND4 }	and name (BE 1)) and name (BDt) and name (BDt) and same (BDt) And 444 weight 0 10000E+01 volume 0 18792E+03 ppml 7.023 ppm2 0	and name (1914) and name (1914) and name (1914) and name (1911) peak 3494 weight 0 10000E+01 volume 0 19853E+03 ppml 7 022 ppm2 3	and Damm HZ)) and name HB2)) and name HB2)) and name HB)) eak 3504 weight 0 10000E+01 volume 0 12393E+03 ppml 7 023 ppm2 2	and name ND*) and name ND*) and name ND*) and name ND*)	Deak 3544 weight 0 10000E+01 volume 0.82384E+02 ppm. 7 005 ppm. 2 and name HZ)) and name HZ)) and name HD)	and name HD1)) and name HD4) and name RG1)) and name HD4)	name (0.)) name (0.1)) name (0.1)) name (0.1) 1854 weight 0 10000E/01 volume 0 51606E/03 ppml 7 009 ppm2 1
2.100 2.100 peak 2914 weight 0.10000E+01 volume 0.20135E+03 ppv1 7.488 ppm2 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	"BED " and reald 37 and name HEV) "BED " and reald 37 and name HEZ) 1) "BED " and real 43 and name HEV) "BED " and real 43 and name HEV)	Peak 3264 weight 0 10000E+01 volume 0.34491E+03 ppml 7.263 ppm2 7 and name HOt) 7 and name HOt) 8 and name HEt) 8 and name HEt)	2 100 peak 3324 weight 0 10000E+01 volume 0 20070E+03 ppml 7.074 ppml 4 resid 82 and name HE)	BBS) weight 0 loodoE+Ol volume 0 37424E+O3 ppml 7 069 ppm2 2 #RE4)	byD. and reads 102 and name HB!)} "ByD." and reads 25 and name HB*) "ByD." and reads 25 and name HB*) "ExP." end read 25 and name HB3*) 2 900 2 100 peak 3414 weight 0.10000E+01 volume 0 73603E+02 ppml 7 067 ppml 1	resid 110 and name resid 110 and name	and name HO)) peak 3474 weight 0 10000E+01 volume 0 23859E+03 ppml 7 025 ppm2 2 and name HD4)	and name HB1)) and name HD4) and name HD4) and name HD1)	and name (ED1) and name (ED1) and name (ED1) and name (ED1)) eak 3494 weight 0 10000E+01 volume 0 19853E+03 ppml 7 022 ppm2 3	HE2]) HE2]) HE]) weight 0 100006:01 volume 0 12383E:03 ppml 7 023 ppm2 2	"StD" and resid 14 and name HDN) "StD" and resid 14 and name HDN) "DED" and resid 14 and name HDN) "EDD" and resid 18 and name HDN)	2 100 peak 3544 weight 0 10000E-01 volume 0.82384E-02 ppml 7 005 ppml 2 2 resid 02 and name HE) resid 0.0 and name HE) resid 0.0 and name HE) resid 0.0 and name HE)	"BYD" and resid 21 and name "BYD" and resid 74 and name "BYD" and resid 62 and name "BYD" and resid 74 and name	### and name HG11) resid 21 and name HG11) resid 22 and name HG1) resid 22 and name HG1) resid 32 and name HG1) 1.600 peak 3554 weight 0 100006401 volume 0 518068403 ppml 7 009 ppm2 1

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0 77150B+02 ppml	0 70341E+03 ppml	0 13533E+03 ppml		0 12837E+03 ppm1	0 94963E+02 ppml		0 14012E+03 ppml	0 18031E+03 ppm1	0 129628+03 ppml	0.191826+03 ppml
0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume	0.10000E+01 volume		0 100008+01 volume (0 10000E+01 volume 0	0.10000E+01 volume 0
and name HDt) and name HG)) peak 4144 weight and name HZ)) and name HG))	and name HE*) and name HDI*) peak 4154 weight and name HD*) and name HG12)	d name d name 4174 d name	name name name	and name HD and name HD and name HDt and name HG12 peak 4224 weight	and name HG1)) and name HG1)) and name HE*) and name HB*) peak 4234 weight	and name and name and name	HE	name HEt) name HG2)) name HB4) name HB2) name HB2) name HB4)	name H2) name HD2) 4344 weight name HB\$)	s and name HD%) and name HB2 }) peak 4354 weight of and name HE%)
and resid 74 and resid 78 900 2 100 and resid 82	D mand resid 74 and 1 400 m and resid 22 and 1 400 peak b and resid 106 and b and resid 21 and and	2 and resid 96 and 2 400 2 400 peak 7 and resid 34 and resid 35 and	* and resid and resid and resid and resid	resid 34 resid 32 resid 88 resid 50 2 400	resid 95 resid 96 resid 96 resid 99	and resid and resid and resid and resid	and resid in and resid in and resid in and resid 78 400 2 400	esid 96 cuid 86 cuid 74 cuid 74 cuid 74 cuid 74 cuid 74 cuid 74 cuid 100	resid 34 2.400 resid 68	and resid 106 and resid 78 100 2.100
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Hydrogen Bonding Restraints

!Helix Z	
assign (residue 19 and name HN) (residue 15 and name assign (residue 19 and name N) (residue 15 and name	-
	·
assign (residue 22 and name HN) (residue 18 and name assign (residue 22 and name N) (residue 18 and name	•
assign (residue 23 and name HN) (residue 19 and name	0 \ 1.00 0 0 0 40
assign (residue 23 and name HN) (residue 19 and name assign (residue 23 and name N) (residue 19 and name	•
assign (residue 24 and name HN) (residue 20 and name	0) 1.80 0.0 0.40
assign (residue 24 and name N) (residue 20 and name	
assign (residue 25 and name HN) (residue 21 and name	0) 1.80 0.0 0.40
assign (residue 25 and name N $$) (residue 21 $$ and name	
!Helix B assign (residue 75 and name HN) (residue 71 and name	0) 1.80 0.0 0.40
assign (residue 75 and name N) (residue 71 and name	
!assign (residue 77 and name HN) (residue 73 and name	0) 1.80 0.0 0.40
!assign (residue 77 and name N) (residue 73 and name	
assign (residue 78 and name HN) (residue 74 and name	0) 1.80 0.0 0.40
assign (residue 78 and name N $$) (residue 74 $$ and name $$	0) 2.80 0.30 0.40
assign (residue 79 and name HN) (residue 75 and name	
assign (residue 79 and name N) (residue 75 and name $^{\prime\prime}$	0) 2.80 0.30 0.40
!assign (residue 80 and name HN) (residue 76 and name	· · · · · · · · · · · · · · · · · · ·
!assign (residue 80 and name N) (residue 76 and name	0) 2.80 0.30 0.40
assign (residue 81 and name HN) (residue 77 and name assign (residue 81 and name N) (residue 77 and name N	
	0) 2.80 0.30 0.40
assign (residue 82 and name HN) (residue 78 and name assign (residue 82 and name N) (residue 78 and name	•
	2.00 0.30 0.40
!Helix C assign (residue 102 and name HN) (residue 98 and name	0) 1.80 0.0 0.40
assign (residue 102 and name N $$) (residue 98 and name	
assign (residue 103 and name HN) (residue 99 and name	0) 1.80 0.0 0.40
assign (residue 103 and name N $$) (residue 99 and name	0) 2.80 0.30 0.40
assign (residue 104 and name HN) (residue 100 and name	•
assign (residue 104 and name N $$) (residue 100 and name	0) 2.80 0.30 0.40
assign (residue 105 and name HN) (residue 101 and name	
assign (residue 105 and name N) (residue 101 and name	0) 2.80 0.30 0.40

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2459-1-003 (Sheet 1 of 9)

# Structure-based sequence homology alignment of bromodomains

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Figure 1

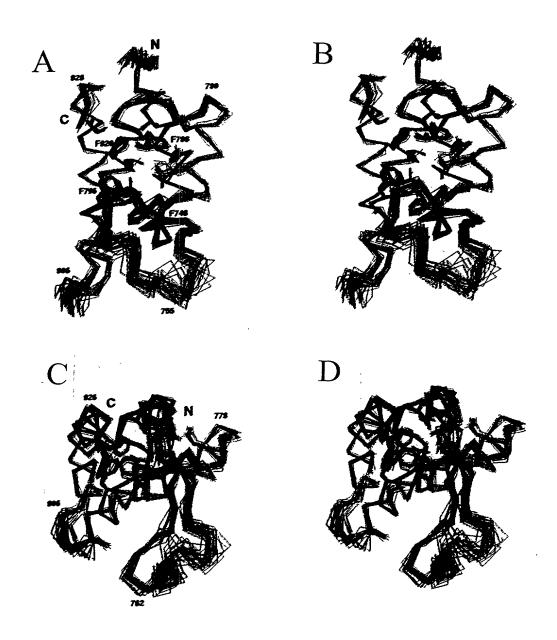


Figure 2A-2D

## Three-Dimensional Structure of the P/CAF Bromodomain

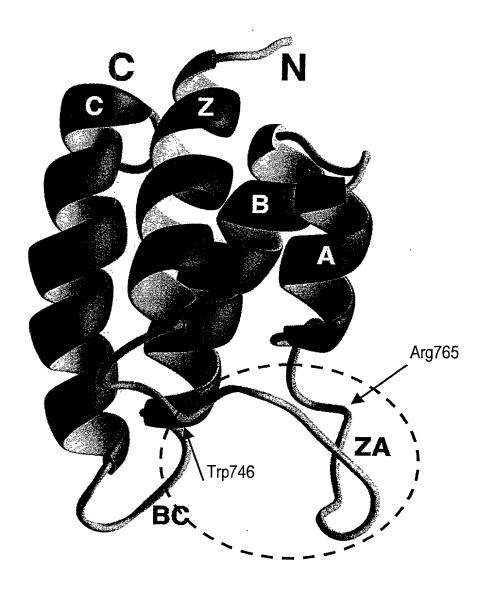


Figure 2E

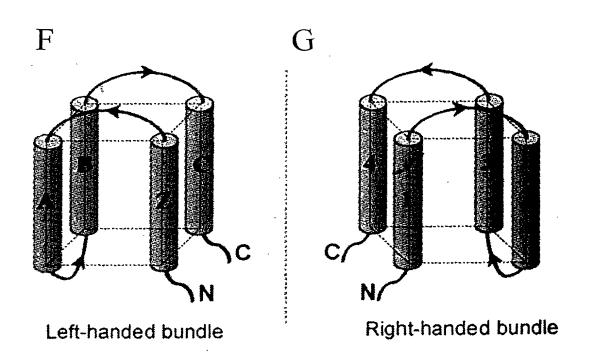


Figure 2F-2G

# 2459-1-003 (Sheet 5 of 9)

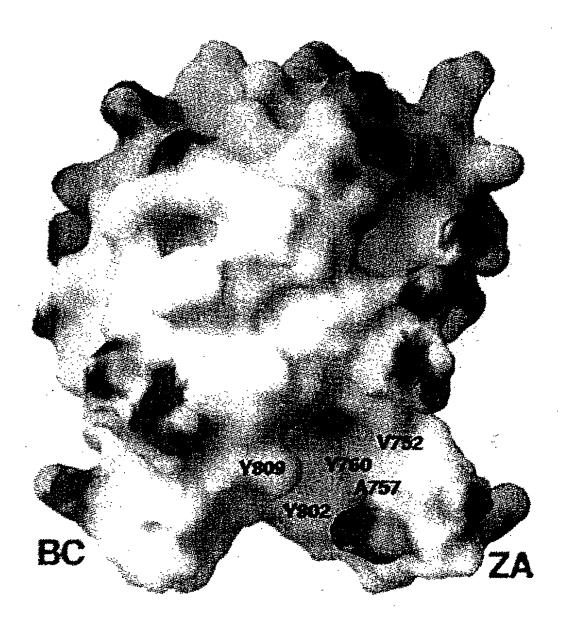


Figure 2H

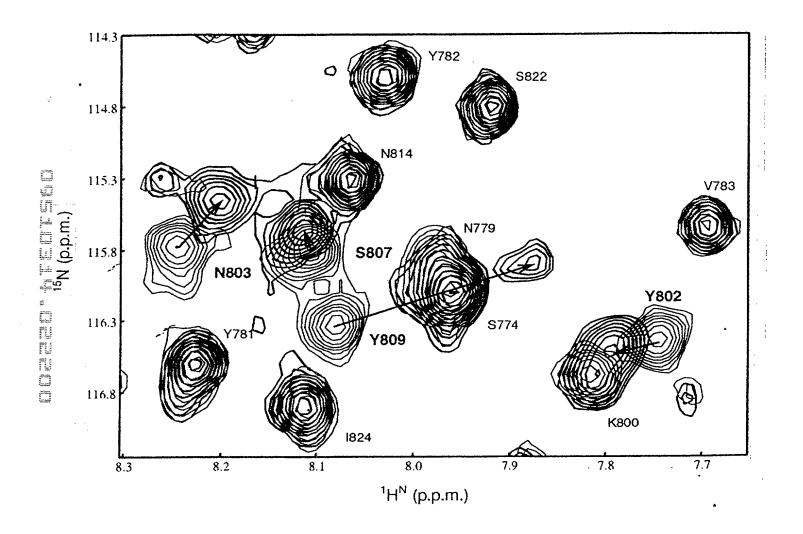


Figure 3A

# 2459-1-003 (Sheet 7 of 9)

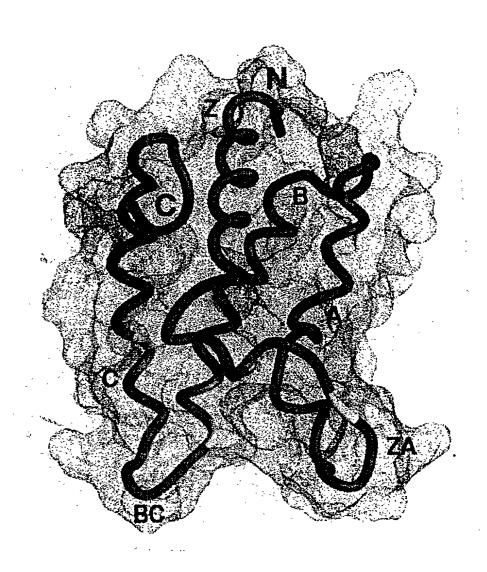


Figure 3B

$$N\varepsilon$$
-acetyl-lysine  $N\omega$ -acetyl-histamine  $N\omega$ -acetyl-histidine

Figure 3C

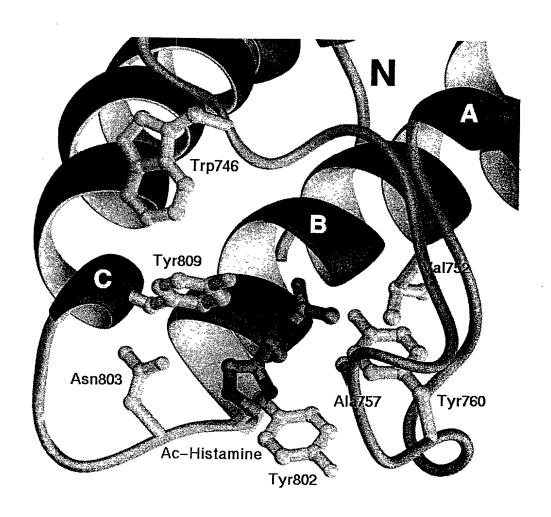


Figure 4

### **DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION**

As below named inventors, we hereby declare that:

Our residence, post office address and citizenship are as stated below under our names.

We believe that we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled

### METHODS OF IDENTIFYING MODULATORS OF BROMODOMAINS

the Specificat	ion of which												
[X]	is attached hereto												
[ ]	was filed on												
	as Application Serial No.												
	and was amended on												
		ed and understand the contents of the contents											
		information which is material to the with Title 37, Code of Federal Re											
We hereby claim foreign priority benefits under Title 35, United States Code, §119 of any provisional application filed in the United States in accordance with 35 U.S.C. §1.119(e), or any application for patent that has been converted to a Provisional Application within one (1) year of its filing date, or any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.													
APPLICATIONUMBER		APPLICATION(S) (DAY/MONTH/YEAR FILED)	PRIORITY CLAIMED										

We hereby claim the benefit under Title 35, United States Code, §120 of any United States application listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in any prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a), which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

APPLICATION NO.

FILING DATE (DAY/MONTH/YEAR)

STATUS - PATENTED, PENDING, ABANDONED

We hereby appoint as our attorneys or agents the following persons: Stefan J. Klauber (Attorney, Registration No. 22,604); David A. Jackson (Attorney, Registration No. 26,742); Donald J. Cox, Jr. (Attorney, Registration No. 37,804); Michael D. Davis (Attorney, Registration No. 39,161); Allan H. Fried (Attorney, Registration No. 31,253); Christine E. Dietzel (Agent, Registration No. 37,309); and Michael A. Yamin (Agent, Registration No. P44,414), said attorneys or agents with full power of substitution and revocation to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Please address all correspondence regarding this application to:

DAVID A. JACKSON, ESQ. KLAUBER & JACKSON 411 HACKENSACK AVENUE HACKENSACK, NEW JERSEY 07601

Direct all telephone calls to David A. Jackson at (201) 487-5800.

FILL NAME OF FIDER TODIT DIVENITOR.

We hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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SIGNATURE OF INVENTOR	
DATE	-

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SIGNATURE OF INVENTOR	
DATE	_

### SEQUENCE LISTING

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- Gly Ile Arg Glu Thr Gly Trp Lys Pro Ser Gly Lys Glu Lys Ser Lys 705 710 715 720
- Glu Pro Arg Asp Pro Asp Gln Leu Tyr Ser Thr Leu Lys Ser Ile Leu
  725 730 735
- Gln Gln Val Lys Ser His Gln Ser Ala Trp Pro Phe Met Glu Pro Val 740 745 750
- Lys Arg Thr Glu Ala Pro Gly Tyr Tyr Glu Val Ile Arg Phe Pro Met 755 760 765
- Asp Leu Lys Thr Met Ser Glu Arg Leu Lys Asn Arg Tyr Tyr Val Ser 770 780
- Lys Lys Leu Phe Met Ala Asp Leu Gln Arg Val Phe Thr Asn Cys Lys 785 790 795 800
- Glu Tyr Asn Ala Ala Glu Ser Glu Tyr Tyr Lys Cys Ala Asn Ile Leu 805 810 815
- Glu Lys Phe Phe Phe Ser Lys Ile Lys Glu Ala Gly Leu Ile Asp Lys 820 825 830

```
<210> 3
<211> 12
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: peptide
<220>
<221> VARIANT
<222> (2)
<223> It represents 2 to 3 undesignated amino acids.
      They can be any amino acids.
<220>
<221> VARIANT
<222> (4)
<223> It represents 5 to 8 undesignated amino acids.
      They can be any amino acids.
<220>
<221> VARIANT
<222> (6)
<223> It represents one undesignated amino acid. It can
      be any amino acid.
<220>
<221> VARIANT
<222> (9)
<223> It represents 5 undesignated amino acids. They can
      be any amino acids.
<220>
<221> VARIANT
<222> (5)
<223> It can be any amino acid from the group of: P, K,
      or H.
<220>
<221> VARIANT
<222> (8)
<223> It can be any amino acid from the group of: Y, F,
      or H.
<220>
<221> VARIANT
<222> (11)
<223> It can be any amino acid from the group of: M, I,
```

or V.

```
<400> 3
Phe Xaa Pro Xaa Xaa Xaa Tyr Xaa Xaa Pro Xaa Asp
                  5
                                      10
<210> 4
<211> 12
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: peptide
<220>
<221> SITE
<222> (6)
<223> It is acetyl-lysine.
<400> 4
Ile Ser Tyr Gly Arg Xaa Lys Arg Arg Gln Arg Arg
                  5
<210> 5
<211> 14
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: peptide
<220>
<221> SITE
<222> (8)
<223> It is acetyl-lysine.
<400> 5
Ala Arg Lys Ser Thr Gly Gly Xaa Ala Pro Arg Lys Gln Leu
                                      10
<210> 6
<211> 14
<212> PRT
<213> Artificial Sequence
```

```
<223> Description of Artificial Sequence: peptide
<220>
<221> SITE
<222> (8)
<223> It is acetyl-lysine.
<400> 6
Gln Ser Thr Ser Arg His Lys Xaa Leu Met Phe Lys Thr Glu
                  5
<210> 7
<211> 110
<212> PRT
<213> Homo sapiens
<400> 7
Ser Lys Glu Pro Arg Asp Pro Asp Gln Leu Tyr Ser Thr Leu Lys Ser
                  5
                                     10
Ile Leu Gln Gln Val Lys Ser His Gln Ser Ala Trp Pro Phe Met Glu
             20
                                  25
                                                      30
Pro Val Lys Arg Thr Glu Ala Pro Gly Tyr Tyr Glu Val Ile Arg Ser
         35
                              40
                                                  45
Pro Met Asp Leu Lys Thr Met Ser Glu Arg Leu Lys Asn Arg Tyr Tyr
     50
                         55
Val Ser Lys Lys Leu Phe Met Ala Asp Leu Gln Arg Val Phe Thr Asn
 65
                     70
                                          75
Cys Lys Glu Tyr Asn Ala Pro Glu Ser Glu Tyr Tyr Lys Cys Ala Asn
Ile Leu Glu Lys Phe Phe Phe Ser Lys Ile Lys Glu Ala Gly
            100
                                105
<210> 8
<211> 110
<212> PRT
<213> Homo sapiens
<400> 8
Gly Lys Glu Leu Lys Asp Pro Asp Gln Leu Tyr Thr Thr Leu Lys Asn
```

Leu Leu Ala Gln Ile Lys Ser His Pro Ser Ala Trp Pro Phe Met Glu Pro Val Lys Lys Ser Glu Ala Pro Asp Tyr Tyr Glu Val Ile Arg Phe Pro Ile Asp Leu Lys Thr Met Thr Glu Arg Leu Arg Ser Arg Tyr Tyr Val Thr Arg Lys Leu Phe Val Ala Asp Leu Gln Arg Val Ile Ala Asn Cys Arg Glu Tyr Asn Pro Pro Asp Ser Glu Tyr Cys Arg Cys Ala Ser Ala Leu Glu Lys Phe Phe Tyr Phe Lys Leu Lys Glu Gly Gly <210> 9 <211> 109

<212> PRT

<213> Tetrahymena thermophila

<400> 9

Leu Lys Lys Ser Lys Glu Arg Ser Phe Asn Leu Gln Cys Ala Asn Val 

Ile Glu Asn Met Lys Arg His Lys Gln Ser Trp Pro Phe Leu Asp Pro 

Val Asn Lys Asp Asp Val Pro Asp Tyr Tyr Asp Val Ile Thr Asp Pro 

Ile Asp Ile Lys Ala Ile Glu Lys Lys Leu Gln Asn Asn Gln Tyr Val 

Asp Lys Asp Gln Phe Ile Lys Asp Val Lys Arg Ile Phe Thr Asn Ala 

Lys Ile Tyr Asn Gln Pro Asp Thr Ile Tyr Tyr Lys Ala Ala Lys Glu

Leu Glu Asp Phe Val Glu Pro Tyr Leu Thr Lys Leu Lys 

```
<210> 10
<211> 109
<212> PRT
<213> Saccharomyces cerevisiae
<400> 10
Ala Gln Arg Pro Lys Arg Gly Pro His Asp Ala Ala Ile Gln Asn Ile
                                      10
                                                          15
Leu Thr Glu Leu Gln Asn His Ala Ala Ala Trp Pro Phe Leu Gln Pro
             20
                                  25
Val Asn Lys Glu Glu Val Pro Asp Tyr Tyr Asp Phe Ile Lys Glu Pro
                              40
Met Asp Leu Ser Thr Met Glu Ile Lys Leu Glu Ser Asn Lys Tyr Gln
                         55
Lys Met Glu Asp Phe Ile Tyr Asp Ala Arg Leu Val Phe Asn Asn Cys
65
                    70
                                          75
Arg Met Tyr Asn Gly Glu Asn Thr Ser Tyr Tyr Lys Tyr Ala Asn Arg
                 85
                                      90
                                                          95
Leu Glu Lys Phe Phe Asn Asn Lys Val Lys Glu Ile Pro
                                 105
<210> 11
<211> 112
<212> PRT
<213> Homo sapiens
<400> 11
Lys Lys Ile Phe Lys Pro Glu Glu Leu Arg Gln Ala Leu Met Pro Thr
                  5
                                      10
                                                          15
Leu Glu Ala Leu Tyr Arg Gln Asp Pro Glu Ser Leu Pro Phe Arg Gln
             20
                                 25
                                                      30
Pro Val Asp Pro Gln Leu Leu Gly Ile Pro Asp Tyr Phe Asp Ile Val
         35
                                                  45
Lys Ser Pro Met Asp Leu Ser Thr Ile Lys Arg Lys Leu Asp Thr Gly
     50
                         55
                                              60
```

Gln Tyr Gln Glu Pro Trp Gln Tyr Val Asp Asp Ile Trp Leu Met Phe

Asn Asn Ala Trp Leu Tyr Asn Arg Lys Thr Ser Arg Val Tyr Lys Tyr 85 90 95

Cys Ser Lys Leu Ser Glu Val Phe Glu Gln Glu Ile Asp Pro Val Met 100 105 110

<210> 12

<211> 112

<212> PRT

<213> Homo sapiens

<400> 12

Lys Lys Ile Phe Lys Pro Glu Glu Leu Arg Gln Ala Leu Met Pro Thr 1 5 10 15

Leu Glu Ala Leu Tyr Arg Gln Asp Pro Glu Ser Leu Pro Phe Arg Gln 20 25 30

Pro Val Asp Pro Gln Leu Leu Gly Ile Pro Asp Tyr Phe Asp Ile Val 35 40 45

Lys Asn Pro Met Asp Leu Ser Thr Ile Lys Arg Lys Leu Asp Thr Gly 50 55 60

Gln Tyr Gln Glu Pro Trp Gln Tyr Val Asp Asp Val Trp Leu Met Phe
65 70 75 80

Asn Asn Ala Trp Leu Tyr Asn Arg Lys Thr Ser Arg Val Tyr Lys Phe 85 90 95

Cys Ser Lys Leu Ala Glu Val Phe Glu Gln Glu Ile Asp Pro Val Met 100 105 110

<210> 13

<211> 112

<212> PRT

<213> Mus musculus

<400	)> 13	3													
Lys	Lys	Ile	Phe	Lys	Pro	Glu	Glu	Leu	Arg	Gln	Ala	Leu	Met	Pro	Thr
1				5					10					15	

Leu Glu Ala Leu Tyr Arg Gln Asp Pro Glu Ser Leu Pro Phe Arg Gln 20 25 30

Pro Val Asp Pro Gln Leu Leu Gly Ile Pro Asp Tyr Phe Asp Ile Val 35 40 45

Lys Asn Pro Met Asp Leu Ser Thr Ile Lys Arg Lys Leu Asp Thr Gly 50 55 60

Gln Tyr Gln Glu Pro Trp Gln Tyr Val Asp Asp Val Arg Leu Met Phe
65 70 75 80

Asn Asn Ala Trp Leu Tyr Asn Arg Lys Thr Ser Arg Val Tyr Lys Phe \$85\$ 90 95

Cys Ser Lys Leu Ala Glu Val Phe Glu Gln Glu Ile Asp Pro Val Met 100 105 110

<210> 14

<211> 111

<212> PRT

<213> Caenorhabditis elegans

<400> 14

Asp Thr Val Phe Ser Gln Glu Asp Leu Ile Lys Phe Leu Leu Pro Val 1 5 10 15

Trp Glu Lys Leu Asp Lys Ser Glu Asp Ala Ala Pro Phe Arg Val Pro
20 25 30

Val Asp Ala Lys Leu Leu Asn Ile Pro Asp Tyr His Glu Ile Ile Lys 35 40 45

Arg Pro Met Asp Leu Glu Thr Val His Lys Lys Leu Tyr Ala Gly Gln 50 55 60

Tyr Gln Asn Ala Gly Gln Phe Cys Asp Asp Ile Trp Leu Met Leu Asp 65 70 75 80

Asn Ala Trp Leu Tyr Asn Arg Lys Asn Ser Lys Val Tyr Lys Tyr Gly

85 90 95

Leu Lys Leu Ser Glu Met Phe Val Ser Glu Met Asp Pro Val Met
100 105 110

<210> 15

<211> 110

<212> PRT

<213> Homo sapiens

<400> 15

Arg Arg Arg Thr Asp Pro Met Val Thr Leu Ser Ser Ile Leu Glu Ser 1 5 10 15

Ile Ile Asn Asp Met Arg Asp Leu Pro Asn Thr Tyr Pro Phe His Thr
20 25 30

Pro Val Asn Ala Lys Val Val Lys Asp Tyr Tyr Lys Ile Ile Thr Arg 35 40 45

Pro Met Asp Leu Gln Thr Leu Arg Glu Asn Val Arg Lys Arg Leu Tyr 50 55 60

Pro Ser Arg Glu Glu Phe Arg Glu His Leu Glu Leu Ile Val Lys Asn 65 70 75 80

Ser Ala Thr Tyr Asn Gly Pro Lys His Ser Leu Thr Gln Ile Ser Gln 85 90 95

Ser Met Leu Asp Leu Cys Asp Glu Lys Leu Lys Glu Lys Glu
100 105 110

<210> 16

<211> 110

<212> PRT

<213> Mesocricetus auratus

<400> 16

Arg Arg Arg Thr Asp Pro Met Val Thr Leu Ser Ser Ile Leu Glu Ser 1 5 10 15

Ile Ile Asn Asp Met Arg Asp Leu Pro Asn Thr Tyr Pro Phe His Thr
20 25 30

Pro Val Asn Ala Lys Val Val Lys Asp Tyr Tyr Lys Ile Ile Thr Arg 35 40 45 Pro Met Asp Leu Gln Thr Leu Arg Glu Asn Val Arg Lys Arg Leu Tyr 50 55 60

Pro Ser Arg Glu Glu Phe Arg Glu His Leu Glu Leu Ile Val Lys Asn 65 70 75 80

Ser Ala Thr Tyr Asn Gly Pro Lys His Ser Leu Thr Gln Ile Ser Gln \$85\$ 90 95

Ser Met Leu Asp Leu Cys Asp Glu Lys Leu Lys Glu Lys Glu 100 105 110

<210> 17

<211> 111

<212> PRT

<213> Homo sapiens

<400> 17

Leu Leu Asp Asp Asp Gln Val Ala Phe Ser Phe Ile Leu Asp Asn 1 5 10 15

Ile Val Thr Gln Lys Met Met Ala Val Pro Asp Ser Trp Pro Phe His
20 25 30

His Pro Val Asn Lys Lys Phe Val Pro Asp Tyr Tyr Lys Val Ile Val 35 40 45

Asn Pro Met Asp Leu Glu Thr Ile Arg Lys Asn Ile Ser Lys His Lys 50 55 60

Tyr Gln Ser Arg Glu Ser Phe Leu Asp Asp Val Asn Leu Ile Leu Ala 65 70 75 80

Asn Ser Val Lys Tyr Asn Gly Pro Glu Ser Gln Tyr Thr Lys Thr Ala 85 90 95

Gln Glu Ile Val Asn Val Cys Tyr Gln Thr Leu Thr Glu Tyr Asp \$100\$ \$105\$ \$110\$

<210> 18

<211> 111

<212> PRT

<213> Mesocricetus auratus

<400> 18

Leu Leu Asp Asp Asp Gln Val Ala Phe Ser Phe Ile Leu Asp Asn 1 5 10 15

Ile Val Thr Gln Lys Met Met Ala Val Pro Asp Ser Trp Pro Phe His
20 25 30

His Pro Val Asn Lys Lys Phe Val Pro Asp Tyr Tyr Lys Val Ile Val 35 40 45

Ser Pro Met Asp Leu Glu Thr Ile Arg Lys Asn Ile Ser Lys His Lys 50 55 60

Tyr Gln Ser Arg Glu Ser Phe Leu Asp Asp Val Asn Leu Ile Leu Ala 65 70 75 80

Asn Ser Val Lys Tyr Asn Gly Ser Glu Ser Gln Tyr Thr Lys Thr Ala 85 90 95

Gln Glu Ile Val Asn Val Cys Tyr Gln Thr Leu Thr Glu Tyr Asp 100 105 110

<210> 19

<211> 111

<212> PRT

<213> Homo sapiens

<400> 19

Lys Pro Gly Arg Val Thr Asn Gln Leu Gln Tyr Leu His Lys Val Val 1 5 10 15

Met Lys Ala Leu Trp Lys His Gln Phe Ala Trp Pro Phe Arg Gln Pro 20 25 30

Val Asp Ala Val Lys Leu Gly Leu Pro Asp Tyr His Lys Ile Ile Lys
35 40 45

Gln Pro Met Asp Met Gly Thr Ile Lys Arg Arg Leu Glu Asn Asn Tyr 50 55 60

Tyr Trp Ala Ala Ser Glu Cys Met Gln Asp Phe Asn Thr Met Phe Thr 65 70 75 80

Asn Cys Tyr Ile Tyr Asn Lys Pro Thr Asp Asp Ile Val Leu Met Ala 85 90 95

Gln Thr Leu Glu Lys Ile Phe Leu Gln Lys Val Ala Ser Met Pro 100 105 110

50

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<210> 20
<211> 111
<212> PRT
<213> Homo sapiens
<400> 20
Lys Pro Gly Arg Lys Thr Asn Gln Leu Gln Tyr Met Gln Asn Val Val
                                      10
Val Lys Thr Leu Trp Lys His Gln Phe Ala Trp Pro Phe Tyr Gln Pro
Val Asp Ala Ile Lys Leu Asn Leu Pro Asp Tyr His Lys Ile Ile Lys
         35
                             40
Asn Pro Met Asp Met Gly Thr Ile Lys Lys Arg Leu Glu Asn Asn Tyr
     50
                         55
                                              60
Tyr Trp Ser Ala Ser Glu Cys Met Gln Asp Phe Asn Thr Met Phe Thr
                     70
Asn Cys Tyr Ile Tyr Asn Lys Pro Thr Asp Asp Ile Val Leu Met Ala
                 85
                                      90
Gln Ala Leu Glu Lys Ile Phe Leu Gln Lys Val Ala Gln Met Pro
            100
                                105
                                                     110
<210> 21
<211> 111
<212> PRT
<213> Drosophila melanogaster
<400> 21
Arg Pro Gly Arg Asn Thr Asn Gln Leu Gln Tyr Leu Ile Lys Thr Val
                                     10
                                                          15
Met Lys Val Ile Trp Lys His His Phe Ser Trp Pro Phe Gln Gln Pro
             20
Val Asp Ala Lys Lys Leu Asn Leu Pro Asp Tyr His Lys Ile Ile Lys
```

55

40

Gln Pro Met Asp Met Gly Thr Ile Lys Lys Arg Leu Glu Asn Asn Tyr

Tyr Trp Ser Ala Lys Glu Thr Ile Gln Asp Phe Asn Thr Met Phe Asn 65 70 75 80

Asn Cys Tyr Val Tyr Asn Lys Pro Gly Glu Asp Val Val Met Ala 85 90 95

Gln Thr Leu Glu Lys Val Phe Leu Gln Lys Ile Glu Ser Met Pro 100 105 110

<210> 22

<211> 109

<212> PRT

<213> Saccharomyces cerevisiae

<400> 22

Asn Pro Ile Pro Lys His Gln Gln Lys His Ala Leu Leu Ala Ile Lys 1 5 10 15

Ala Val Lys Arg Leu Lys Asp Ala Arg Pro Phe Leu Gln Pro Val Asp 20 25 30

Pro Val Lys Leu Asp Ile Pro Phe Tyr Phe Asn Tyr Ile Lys Arg Pro 35 40 45

Met Asp Leu Ser Thr Ile Glu Arg Lys Leu Asn Val Gly Ala Tyr Glu 50 55 60

Val Pro Glu Gln Ile Thr Glu Asp Phe Asn Leu Met Val Asn Asn Ser 65 70 75 80

Ile Lys Phe Asn Gly Pro Asn Ala Gly Ile Ser Gln Met Ala Arg Asn 85 90 95

Ile Gln Ala Ser Phe Glu Lys His Met Leu Asn Met Pro 100 105

<210> 23

<211> 113

<212> PRT

<213> Homo sapiens

<400> 23

Lys Lys Gly Lys Leu Ser Glu Gln Leu Lys His Cys Asn Gly Ile Leu 1 5 10 15

Lys Glu Leu Leu Ser Lys Lys His Ala Ala Tyr Ala Trp Pro Phe Tyr

20 , 25 30

Lys Pro Val Asp Ala Ser Ala Leu Gly Leu His Asp Tyr His Asp Ile 35 40 45

Ile Lys His Pro Met Asp Leu Ser Thr Val Lys Arg Lys Met Glu Asn 50 55 60

Arg Asp Tyr Arg Asp Ala Gln Glu Phe Ala Ala Asp Val Arg Leu Met 65 70 75 80

Phe Ser Asn Cys Tyr Lys Tyr Asn Pro Pro Asp His Asp Val Val Ala 85 90 95

Met Ala Arg Lys Leu Gln Asp Val Phe Glu Phe Arg Tyr Ala Lys Met 100 105 110

Pro

<210> 24

<211> 113

<212> PRT

<213> Homo sapiens

<400> 24

Lys Lys Gly Lys Leu Ser Glu His Leu Arg Tyr Cys Asp Ser Ile Leu 1 5 10 15

Arg Glu Met Leu Ser Lys Lys His Ala Ala Tyr Ala Trp Pro Phe Tyr
20 25 30

Lys Pro Val Asp Ala Glu Ala Leu Glu Leu His Asp Tyr His Asp Ile 35 40 45

Ile Lys His Pro Met Asp Leu Ser Thr Val Lys Arg Lys Met Asp Gly 50 55 60

Arg Glu Tyr Pro Asp Ala Gln Gly Phe Ala Ala Asp Val Arg Leu Met 65 70 . 75 80

Phe Ser Asn Cys Tyr Lys Tyr Asn Pro Pro Asp His Glu Val Val Ala 85 90 95

Met Ala Arg Lys Leu Gln Asp Val Phe Glu Met Arg Phe Ala Lys Met 100 105 110

```
<210> 25
<211> 113
<212> PRT
<213> Drosophila melanogaster
<400> 25
Asn Lys Glu Lys Leu Ser Asp Ala Leu Lys Ser Cys Asn Glu Ile Leu
```

Lys Glu Leu Phe Ser Lys Lys His Ser Gly Tyr Ala Trp Pro Phe Tyr 20 25

10

Lys Pro Val Asp Ala Glu Met Leu Gly Leu His Asp Tyr His Asp Ile

Ile Lys Lys Pro Met Asp Leu Gly Thr Val Lys Arg Lys Met Asp Asn 50 55 60

Arg Glu Tyr Lys Ser Ala Pro Glu Phe Ala Ala Asp Val Arg Leu Ile 65 70 75 80

Phe Thr Asn Cys Tyr Lys Tyr Asn Pro Pro Asp His Asp Val Val Ala 85 95

Met Gly Arg Lys Leu Gln Asp Val Phe Glu Met Arg Tyr Ala Asn Ile 100 105 110

Pro

<210> 26 <211> 113 <212> PRT <213> Saccharomyces cerevisiae

<400> 26 Lys Ser Lys Arg Leu Gln Gln Ala Met Lys Phe Cys Gln Ser Val Leu 10 15

Lys Glu Leu Met Ala Lys Lys His Ala Ser Tyr Asn Tyr Pro Phe Leu 20 25

Glu Pro Val Asp Pro Val Ser Met Asn Leu Pro Thr Tyr Phe Asp Tyr

35 40 45

Val Lys Glu Pro Met Asp Leu Gly Thr Ile Ala Lys Lys Leu Asn Asp 50 55 60

Trp Gln Tyr Gln Thr Met Glu Asp Phe Glu Arg Glu Val Arg Leu Val
65 70 75 80

Phe Lys Asn Cys Tyr Thr Phe Asn Pro Asp Gly Thr Ile Val Asn Met 85 90 95

Met Gly His Arg Leu Glu Glu Val Phe Asn Ser Lys Trp Ala Asp Arg
100 105 110

Pro

<210> 27

<211> 108

<212> PRT

<213> Homo sapiens

<400> 27

Met Glu Met Gln Leu Thr Pro Phe Leu Ile Leu Leu Arg Lys Thr Leu 1 5 10 15

Glu Gln Leu Gln Glu Lys Asp Thr Gly Asn Ile Phe Ser Glu Pro Val $20 \hspace{1.5cm} 25 \hspace{1.5cm} 30$ 

Pro Leu Ser Glu Val Pro Asp Tyr Leu Asp His Ile Lys Lys Pro Met 35 40 45

Asp Phe Phe Thr Met Lys Gln Asn Leu Glu Ala Tyr Arg Tyr Leu Asn 50 55 60

Phe Asp Asp Phe Glu Glu Asp Phe Asn Leu Ile Val Ser Asn Cys Leu 65 70 75 80

Lys Tyr Asn Ala Lys Asp Thr Ile Phe Tyr Arg Ala Ala Val Arg Leu 85 90 95

Arg Glu Gln Gly Gly Ala Val Val Arg Gln Ala Arg
100 105

<210> 28

<211> 113

<212> PRT

<213> Homo sapiens

<400> 28

Ser Glu Asp Gln Glu Ala Ile Gln Ala Gln Lys Ile Trp Lys Lys Ala 1 5 10 15

Ile Met Leu Val Trp Arg Ala Ala Ala Asn His Arg Tyr Ala Asn Val 20 25 30

Phe Leu Gln Pro Val Thr Asp Asp Ile Ala Pro Gly Tyr His Ser Ile 35 40 45

Val Gln Arg Pro Met Asp Leu Ser Thr Ile Lys Lys Asn Ile Glu Asn 50 55 60

Gly Leu Ile Arg Ser Thr Ala Glu Phe Gln Arg Asp Ile Met Leu Met 65 70 75 80

Phe Gln Asn Ala Val Met Tyr Asn Ser Ser Asp His Asp Val Tyr His
85 90 95

Met Ala Val Glu Met Gln Arg Asp Val Leu Glu Gln Ile Gln Gln Phe 100 105 110

Leu

<210> 29

<211> 106

<212> PRT

<213> Gallus gallus

<400> 29

Asn Leu Pro Thr Val Asp Pro Ile Ala Val Cys His Glu Leu Tyr Asn 1 5 10 15

Thr Ile Arg Asp Tyr Lys Asp Glu Gln Gly Arg Leu Leu Cys Glu Leu 20 25 30

Phe Ile Arg Ala Pro Lys Arg Arg Asn Gln Pro Asp Tyr Tyr Glu Val 35 40 45

Val Ser Gln Pro Ile Asp Leu Met Lys Ile Gln Gln Lys Leu Lys Met 50 55 60

Glu Glu Tyr Asp Asp Val Asn Val Leu Thr Ala Asp Phe Gln Leu Leu

75

80

Phe Asn Asn Ala Lys Ala Tyr Tyr Lys Pro Asp Ser Pro Glu Tyr Lys 85 90 95

Ala Ala Cys Lys Leu Trp Glu Leu Tyr Leu 100 105

<210> 30

<211> 112

<212> PRT

<213> Gallus gallus

<400> 30

Ser Ser Pro Gly Tyr Leu Lys Glu Ile Leu Glu Gln Leu Leu Glu Ala 1 5 10 15

Val Ala Val Ala Thr Asn Pro Ser Gly Arg Leu Ile Ser Glu Leu Phe 20 25 30

Gln Lys Leu Pro Ser Lys Val Gln Tyr Pro Asp Tyr Tyr Ala Ile Ile 35 40 45

Lys Glu Pro Ile Asp Leu Lys Thr Ile Ala Gln Arg Ile Gln Asn Gly 50 55 60

Thr Tyr Lys Ser Ile His Ala Met Ala Lys Asp Ile Asp Leu Leu Ala 65 70 75 80

Lys Asn Ala Lys Thr Tyr Asn Glu Pro Gly Ser Gln Val Phe Lys Asp \$85\$ 90 95

Ala Asn Ala Ile Lys Lys Ile Phe Asn Met Lys Lys Ala Glu Ile Glu
100 105 110

<210> 31

<211> 112

<212> PRT

<213> Gallus gallus

<400> 31

Thr Ser Phe Met Asp Thr Ser Asn Pro Leu Tyr Gln Leu Tyr Asp Thr 1 5 10 15

Val Arg Ser Cys Arg Asn Asn Gln Gly Gln Leu Ile Ser Glu Pro Phe 20 25 30

Phe Gln Leu Pro Ser Lys Lys Lys Tyr Pro Asp Tyr Tyr Gln Gln Ile 35 40 45

Lys Thr Pro Ile Ser Leu Gln Gln Ile Arg Ala Lys Leu Lys Asn His 50 55 60

Glu Tyr Glu Thr Leu Asp Gln Leu Glu Ala Asp Leu Asn Leu Met Phe
65 70 75 80

Glu Asn Ala Lys Arg Tyr Asn Val Pro Asn Ser Ala Ile Tyr Lys Arg 85 90 95

Val Leu Lys Met Gln Gln Val Met Gln Ala Lys Lys Lys Glu Leu Ala 100 105 110

<210> 32

<211> 113

<212> PRT

<213> Gallus gallus

<400> 32

Ser Lys Lys Asn Met Arg Lys Gln Arg Met Lys Ile Leu Tyr Asn Ala 1 5 10 15

Val Leu Glu Ala Arg Glu Ser Gly Thr Gln Arg Arg Leu Cys Asp Leu 20 25 30

Phe Met Val Lys Pro Ser Lys Lys Asp Tyr Pro Asp Tyr Tyr Lys Ile
35 40 45

Ile Leu Glu Pro Met Asp Leu Lys Met Ile Glu His Asn Ile Arg Asn 50 55 60

Asp Lys Tyr Val Gly Glu Glu Ala Met Ile Asp Asp Met Lys Leu Met 65 70 75 80

Phe Arg Asn Ala Arg His Tyr Asn Glu Glu Gly Ser Gln Val Tyr Asn 85 90 95

Asp Ala His Met Leu Glu Lys Ile Leu Lys Glu Lys Arg Lys Glu Leu

Gly

<210> 33

<211> 115

<212> PRT

<213> Gallus gallus

100

<400> 33

Lys Lys Ser Lys Tyr Met Thr Pro Met Gln Gln Lys Leu Asn Glu Val 15 5 10

Tyr Glu Ala Val Lys Asn Tyr Thr Asp Lys Arg Gly Arg Arg Leu Ser 20 25

Ala Ile Phe Leu Arg Leu Pro Ser Arg Ser Glu Leu Pro Asp Tyr Tyr 40

Ile Thr Ile Lys Lys Pro Val Asp Met Glu Lys Ile Arg Ser His Met 55

Met Ala Asn Lys Tyr Gln Asp Ile Asp Ser Met Val Glu Asp Phe Val 70 75

Met Met Phe Asn Asn Ala Cys Thr Tyr Asn Glu Pro Glu Ser Leu Ile 90

Tyr Lys Asp Ala Leu Val Leu His Lys Val Leu Leu Glu Thr Arg Arg 100 105 110

Glu Ile Glu 115

<210> 34

<211> 112

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism: Cited from Jeanmougin et al., Trends in Biochemical Sciences, 22:151-153 (1997)

<400> 34

His Asn Ala Pro Phe Asp Lys Thr Lys Phe Asp Glu Val Leu Glu Ala 1 5 10 15

Leu Val Gly Leu Lys Asp Asn Glu Gly Asn Pro Phe Asp Asp Ile Phe 20 25 30

Glu Glu Leu Pro Ser Lys Arg Tyr Phe Pro Asp Tyr Tyr Gln Ile Ile 35 40 45

Gln Lys Pro Ile Cys Tyr Lys Met Met Arg Asn Lys Ala Lys Thr Gly 50 60

Lys Tyr Leu Ser Met Gly Asp Phe Tyr Asp Asp Ile Arg Leu Met Val 65 70 75 80

Ser Asn Ala Gln Thr Tyr Asn Met Pro Gly Ser Leu Val Tyr Glu Cys 85 90 95

Ser Val Leu Ile Ala Asn Thr Ala Asn Ser Leu Glu Ser Lys Asp Gly
100 105 110

<210> 35

<211> 113

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism: Cited from
 Jeanmougin et al., Trends in Biochemical Sciences,
 22:151-153 (1997)

<400> 35

Gly Thr Asn Glu Ile Asp Val Pro Lys Val Ile Gln Asn Ile Leu Asp 1 5 10 15

Ala Leu His Glu Glu Lys Asp Glu Gln Gly Arg Phe Leu Ile Asp Ile 20 25 30

Phe Ile Asp Leu Pro Ser Lys Arg Leu Tyr Pro Asp Tyr Tyr Glu Ile 35 40 45

Ile Lys Ser Pro Met Thr Ile Lys Met Leu Glu Lys Arg Phe Lys Lys 50 55 60

Gly Glu Tyr Thr Thr Leu Glu Ser Phe Val Lys Asp Leu Asn Gln Met 65 70 75 80

Phe Ile Asn Ala Lys Thr Tyr Asn Ala Pro Gly Ser Phe Val Tyr Glu 85 90 95

Asp Ala Glu Lys Leu Ser Gln Leu Ser Ser Ser Leu Ile Ser Ser Phe 100 105 110

Ser

<210> 36

<211> 113

<212> PRT

<213> Homo sapiens

<400> 36

Gly Thr Asn Glu Ile Asp Val Pro Lys Val Ile Gln Asn Ile Leu Asp 1 5 10 15

Ala Leu His Glu Glu Lys Asp Glu Gln Gly Arg Phe Leu Ile Asp Ile 20 25 30

Phe Ile Asp Leu Pro Ser Lys Arg Leu Tyr Pro Asp Tyr Tyr Glu Ile 35 40 45

Ile Lys Ser Pro Met Thr Ile Lys Met Leu Glu Lys Arg Phe Lys Lys 50 55 60

Gly Glu Tyr Thr Thr Leu Glu Ser Phe Val Lys Asp Leu Asn Gln Met 65 70 75 80

Phe Ile Asn Ala Lys Thr Tyr Asn Ala Pro Gly Ser Phe Val Tyr Glu 85 90 95

Asp Ala Glu Lys Leu Ser Gln Leu Ser Ser Ser Leu Ile Ser Ser Phe 100 105 110

Ser

<210> 37

<211> 114

<212> PRT

<213> Homo sapiens

<400	)> 37	7													
Ser	Pro	Asn	Pro	Pro	Asn	Leu	Thr	Lys	Lys	Met	Lys	Lys	Ile	Val	Asp
1				5					10					15	
~ 1	**- 3	<b>-1</b> -	τ		T	7	<b>~</b>	C	C	01	7. 20.00	<i>(</i> 1 m	т олл	Com	C1.,

Ala Val Ile Lys Tyr Lys Asp Ser Ser Ser Gly Arg Gln Leu Ser Glu \$20\$ \$25\$ \$30\$

Val Phe Ile Gln Leu Pro Ser Arg Lys Glu Leu Pro Glu Tyr Tyr Glu 35 40 45

Leu Ile Arg Lys Pro Val Asp Phe Lys Lys Ile Lys Glu Arg Ile Arg 50 55 60

Asn His Lys Tyr Arg Ser Leu Asn Asp Leu Glu Lys Asp Val Met Leu 65 70 75 80

Leu Cys Gln Asn Ala Gln Thr Phe Asn Leu Glu Gly Ser Leu Ile Tyr 85 90 95

Glu Asp Ser Ile Val Leu Gln Ser Val Phe Thr Ser Val Arg Gln Lys
100 105 110

Ile Glu

<210> 38 <211> 113 <212> PRT

<213> Gallus gallus

<400> 38

Ser Pro Asn Pro Pro Lys Leu Thr Lys Gln Met Asn Ala Ile Ile Asp 1 5 10 15

Thr Val Ile Asn Tyr Lys Asp Ser Ser Gly Arg Gln Leu Ser Glu Val 20 25 30

Phe Ile Gln Leu Pro Ser Arg Lys Glu Leu Pro Glu Tyr Tyr Glu Leu 35 40 45

Ile Arg Lys Pro Val Asp Phe Lys Lys Ile Lys Glu Arg Ile Arg Asn 50 55 60

His Lys Tyr Arg Ser Leu Gly Asp Leu Glu Lys Asp Val Met Leu Leu 65 70 75 80

Cys His Asn Ala Gln Thr Phe Asn Leu Glu Gly Ser Gln Ile Tyr Glu 85 90 95

Asp Ser Ile Val Leu Gln Ser Val Phe Lys Ser Ala Arg Gln Lys Ile 100 105 110

Ala

<210> 39

<211> 114

<212> PRT

<213> Gallus gallus

<400> 39

Ser Pro Asn Pro Pro Asn Leu Thr Lys Lys Met Lys Lys Ile Val Asp 1 5 10 15

Ala Val Ile Lys Tyr Lys Asp Ser Ser Ser Gly Arg Gln Leu Ser Glu 20 25 30

Val Phe Ile Gln Leu Pro Ser Arg Lys Glu Leu Pro Glu Tyr Tyr Glu 35 40 45

Leu Ile Arg Lys Pro Val Asp Phe Lys Lys Ile Lys Glu Arg Ile Arg 50 55 60

Asn His Lys Tyr Arg Ser Leu Asn Asp Leu Glu Lys Asp Val Met Leu 65 70 75 80

Leu Cys Gln Asn Ala Gln Thr Phe Asn Leu Glu Val Ser Leu Ile Tyr 85 90 95

Glu Asp Ser Ile Val Leu Gln Ser Val Phe Thr Ser Val Arg Gln Lys
100 105 110

Ile Glu

<210> 40

<211> 105

<212> PRT

<213> Homo sapiens

<400> 40

Ala Lys Leu Ser Pro Ala Asn Gln Arg Lys Cys Glu Arg Val Leu Leu

1 5 10 15

Ala Leu Phe Cys His Glu Pro Cys Arg Pro Leu His Gln Leu Ala Thr
20 25 30

Asp Ser Thr Phe Ser Leu Asp Gln Pro Gly Gly Thr Leu Asp Leu Thr 35 40 45

Leu Ile Arg Ala Arg Leu Gln Glu Lys Leu Ser Pro Pro Tyr Ser Ser 50 55 60

Pro Gln Glu Phe Ala Gln Asp Val Gly Arg Met Phe Lys Gln Phe Asn 65 70 75 80

Lys Leu Thr Glu Asp Lys Ala Asp Val Gln Ser Ile Ile Gly Leu Gln  $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$ 

Arg Phe Phe Glu Thr Arg Met Asn Glu 100 105

<210> 41

<211> 105

<212> PRT

<213> Mus musculus

<400> 41

Ala Lys Leu Ser Pro Ala Asn Gln Arg Lys Cys Glu Arg Val Leu Leu 1 5 10 15

Ala Leu Phe Cys His Glu Pro Cys Arg Pro Leu His Gl<br/>n Leu Ala Thr $20 \\ \hspace{1.5cm} 25 \\ \hspace{1.5cm} 30$ 

Asp Ser Thr Phe Ser Met Glu Gln Pro Gly Gly Thr Leu Asp Leu Thr 35 40 45

Leu Ile Arg Ala Arg Leu Gln Glu Lys Leu Ser Pro Pro Tyr Ser Ser 50 55 60

Pro Gln Glu Phe Ala Gln Asp Val Gly Arg Met Phe Lys Gln Phe Asn 65 70 75 80

Lys Leu Thr Glu Asp Lys Ala Asp Val Gln Ser Ile Ile Gly Leu Gln
85 90 95

Arg Phe Phe Glu Thr Arg Met Asn Asp 100 105

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<210> 42
<211> 108
<212> PRT
<213> Mus sp.
<400> 42
Thr Lys Leu Thr Pro Ile Asp Lys Arg Lys Cys Glu Arg Leu Leu
                  5
                                     10
                                                          15
Phe Leu Tyr Cys His Glu Met Ser Leu Ala Phe Gln Asp Pro Val Pro
             20
                                 25
Leu Thr Val Pro Asp Tyr Tyr Lys Ile Ile Lys Asn Pro Met Asp Leu
                             40
                                                  45
Ser Thr Ile Lys Lys Arg Leu Gln Glu Asp Tyr Cys Met Tyr Thr Lys
                         55
Pro Glu Asp Phe Val Ala Asp Phe Arg Leu Ile Phe Gln Asn Cys Ala
                    70
                                         75
Glu Phe Asn Glu Pro Asp Ser Glu Val Ala Asn Ala Gly Ile Lys Leu
                 85
                                     90
                                                          95
Glu Ser Tyr Phe Glu Glu Leu Leu Lys Asn Leu Tyr
            100
                                105
<210> 43
<211> 13
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: consencus
<220>
<221> VARIANT
<222> (1)
<223> It represents 2 amino acids. They can be any amino
      acids.
<220>
<221> VARIANT
<222> (3)
<223> It represents 2 to 3 amino acids. They can be any
```

amino acids.

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<220>
<221> VARIANT
<222> (5)
<223> It represents 5 to 8 amino acids. They can be any
      amino acids.
<220>
<221> VARIANT
<222> (7)
<223> It represents one amino acids. It can be any amino
      acid.
<220>
<221> VARIANT
<222> (10)
<223> It represents 5 amino acids. They can be any amino
      acids.
<220>
<221> VARIANT
<222> (6)
<223> It represents any amino acid from the group of: P,
      K, or H.
<220>
<221> VARIANT
<222> (9)
<223> It represents any amino acid from the group of: Y,
     F, or H.
<220>
<221> VARIANT
<222> (12)
<223> It represents any amino acid from the group of: M,
      I, or V.
<400> 43
Xaa Phe Xaa Pro Xaa Xaa Xaa Tyr Xaa Xaa Pro Xaa Asp
                  5
<210> 44
<211> 20
<212> PRT
<213> Artificial Sequence
<220>
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<223> Description of Artificial Sequence: consencus

<400> 44

Trp Pro Phe Met Glu Pro Val Lys Arg Thr Glu Ala Pro Gly Tyr Tyr 1 5 10 15

Glu Val Ile Arg

20